REPORT RESUMES

ED 017 333

24

P\$ 000 429

A REPLICATIVE INVESTIGATION OF THE BUCKINGHAM-DOLCH
FREE-ASSOCIATION WORD STUDY. FINAL REPORT.
BY- JACOBS, HUGH DONALD
OREGON UNIV., EUGENE
REPORT NUMBER BR-7-8037 PUB DATE AUG 67
CONTRACT OEC-4-7-008037-2050
EDRS PRICE MF-\$1.00 HC-\$8.08 200P.

DESCRIPTORS- LANGUAGE RESEARCH, COMPARATIVE ANALYSIS, STRUCTURAL ANALYSIS, WORD LISTS, *BASIC VOCABULARY, *VOCABULARY DEVELOPMENT, *ELEMENTARY SCHOOL STUDENTS, *LONGITUDINAL STUDIES, LITERATURE REVIEWS, *HYPOTHESIS TESTING, BUCKINGHAM DOLCH FREE ASSOCIATION WORD STUDY, EUGENE, OREGON,

PUBLISHED CHILDREN'S VOCABULARY LISTS BASED ON ACTUAL USAGE ARE ALL DRAWN FROM RESEARCH DONE PRIOR TO 1930. THE PRESENT STUDY REPLICATED THE 1926 BUCKINGHAM-DOLCH STUDY TO DETERMINE ANY VOCABULARY CHANGES. THE 2 HYPOTHESES TESTED WERE (1) THERE IS NO SIGNIFICANT VOCABULARY SHIFT, AND (2) COMMON WORDS DID NOT DIFFER IN GRADE-PLACEMENT (THE EARLIEST GRADE IN WHICH THE WORD APPEARS FREQUENTLY). THE EARLY VOCABULARY STUDIES WERE EXTENSIVELY REVIEWED AND THEIR LIMITATIONS DISCUSSED. THE STUDY SAMPLE WAS DRAWN FROM SCHOOLS IN THE WILLAMETTE VALLEY PLAIN, OREGON, AND CONSISTED OF 8,506 CHILDREN IN GRADES 2 THROUGH 6. INITIAL WORD LISTS WERE OBTAINED BY HAVING THE CHILDREN WRITE DOWN "ALL THE WORDS THAT CAME TO WIND" IN 15 MINUTES. COMPUTER PROCESSING WAS USED TO OBTAIN FINAL WORKD LISTS AND TO COMPARE THE 1926 AND 1966 LISTS. ALTOGETHER, 9,045 DIFFERENT WORDS WERE OBTAINED, OF WHICH 1,715 ON THE INTERNATIONAL KINDERGARTEN UNION LIST AND 2,820 WHICH COULD NOT BE GRADE-PLACED WERE REMOVED, GIVING 4,510 GRADE-PLACED WORDS. THE 1926 STUDY REPORTED 4,924 GRADE-PLACED WORDS. THERE WERE 2,969 COMMON TO BOTH LISTS, 1,955 UNIQUE TO THE 1926 LIST, AND 1,541 UNIQUE TO THE 1966 LIST. GRADE-PLACING IN 1926 REQUIRED THAT 2 STUDENTS OUT OF THE 16,813 IN THAT STUDY HAD WRITTEN THE WORD. THE 1966 STUDY REQUIRED 3 STUDENTS OUT OF 8,506 FOR GRADE-PLACING. THE GRADE-PLACEMENT OF 1,999 WORDS CHANGED, 1,395 MOVING TO A HIGHER GRADE IN THE 1966 LIST. IT WAS CONCLUDED THAT BOTH HYPOTHESES SHOULD BE REJECTED, THAT THE 1966 STUDENTS KNEW FEWER WORDS, AND THAT THE VOCABULARY . ACHIEVEMENT OF THE 1966 STUDENTS CAME LATER. THE DATA OF THIS STUDY WILL BE AVAILABLE FOR ADDITIONAL RESEARCH. (DR)

FINAL REPORT Project No. 7-8037 Centract No. OEC-4-7-008037-2050

A Replicative Investigation of the Buckingham-Dolch Free-Association Word Study

August 1967

000 SQ JAN 15 1966.

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

> Office of Education Bureau of Research

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE OFFICE OF EDUCATION

THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR GPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL OFFICE OF EDUCATION POSITION OR POLICY.

A REPLICATIVE INVESTIGATION OF
THE BUCKINGHAM-DOLCH FREEASSOCIATION WORD STUDY

Project No. 7-8037 Contract No. OEC-4-7-008037-2050

H. Donald Jacobs

August, 1967

The research reported herein was performed pursuant to a contract with the Office of Education, U. S. Department of Health, Education, and Welfare. Contractors undertaking such projects under Government sponsorship are encouraged *2 express freely their professional judgment in the conduct of the project. Points of view or opinions stated do not, therefore, necessarily represent official Office of Education position or policy.

School of Education University of Oregon

Eugene, Oregon

PS 000429

¥

The Study reported herein was performed pursuant to a contract with the United States Department of Health, Education, and Welfare, Office of Education. All materials produced or delivered under this contract are in the Public Domain.

ACKNOWLEDGEMENTS

In a project of this size and variety one becomes indebted to many, and there becomes a concern of carrying the list too far and at the same time overlooking someone. Recognition is deserved by the following for their exceptional interests and efforts:

Mrs. Edward P. Dolch for her personal endorsement and assistance. The participating teachers and students for their command performances. Mr. Jerry Jaqua for his overtime efforts and imagination with a computer. Miss Jean Holroyd for assistance and encouragement in the very beginning. My wife for her support and endurance and our families for their hours of assistance.

Dr. Jordan Utsey, advisor, for his great interest and continued encouragement. The committee for their specialties and interests:

Miss Eva O'Neil, Dr. Harrison Clarke, Dr. Vernon Farrow, Dr.

Paul Kambly, and Dr. Clarence Schminke.

The Office of Institutional Research for their many services, and the United States Office of Education and the Oregon School Study Council for their financial support.

H, D. J.



"...children's word knowledge is certain to change with changing life conditions and consequently no tabulation can be considered final."

Edward P. Dolch, Ph.D. 1889-1961

TABLE OF CONTENTS

P	ag
LIST OF TABLES	ix
LIST OF ILLUSTRATIONS	хi
Chapter	
I NATURE OF THE PROBLEM	1
Background of the Study	1
Justification of Vocabulary Research	1
Justification of the Reported Study	3
	14
Purpose of the Study	16
Hypotheses of the Study	17
Procedures of the Study	18
Limitations of the Study	19
Definition of Terms	22
II REVIEW OF THE LITERATURE	85
Trends of the Literature	28
Problems and Criticisms of Vocabulary	
Research	31
Literature Related to the Free-Association	
Study	37
Purposes of the Free-Association Study 3	38
Rationale for the Free-Association Method . 4	10
Samples for the Free-Association Study 4	10
Administration and Tabulation of the	
Free-Association Study	11
•	18
	51
	51
Vocabulary Research Included in A Com-	
	54
	13
	14

TABLE OF CONTENTS-Continued

Chapte	·r	Page
Ш	EXPERIMENTAL PROCEDURES	76
	Population and Sample Source	76
	Administration	79
	Data Preparation	80
	Data Processing	82
	Data Analysis	87
	Data Presentation	89
IV	PRESENTATION AND DISCUSSION OF THE	
	FINDINGS	90
	Words Obtained, Removed, and Grade Placed	90
	Common and Unique Grade Placed Words	93
	Grade Level Shift of Common Words	96
	Grade Placement Criterion	99
	Student Performances	99
	Significance of "Running Words"	100
	Distributions of 1966 Student	
	Performances	100
	Comparisons of 1966 and 1926 Student	
	Performances	104
V	SUMMARY AND CONCLUSIONS	112
	Purpose of the Study	112
	Population Studied	112
	Procedures	113
	Summary of the Findings	114
	Conclusions	115
	Implications for the Educator	119
	Validity of Vocabulary Lists	119
	Student Performances	120
	Implications for the Researcher	123
BIBLIO	GRAPHY	126

TABLE OF CONTENTS-Continued

		Page
APPENDIX A:	MATERIALS USED FOR ADMINISTRATION OF FREE-ASSOCIATION RESPONSE PERIOD	Al
APPENDIX B:	HANDROOK - "PROCEDURE SPECIFICA- TIONS"	Bl
APPENDIX C:	MATERIALS USED FOR THE SELECTION OF THE CRITERION FREQUENCY	Cl
APPENDIX D:	FORMULAS USED IN DATA ANALYSIS	Dl
APPENDIX E:	1966 FREE-ASSOCIATION WORD LIST: GRADE LEVELS	El
APPENDIX F:	FREE-ASSOCIATION WORD LISTS:	Fl

LIST OF TABLES

Table		Page
1.	Sources and Dates of Studies Related to A COMBINED WORD LIST	10
2.	Comparisons of Descriptions of Free-Association Data	39
3.	Comparison of Free-Association Data Tables Presented in the 1927 and 1936 Literature	42
4.	Comparison of Free-Association Grade-Placed Words as Reported in the 1927 and 1936 Literature	49
5.	Mathematical Relating of the 1927 and 1936 Reports by the 1759 IKU Words	49
6.	Lists Included in Combined Word Study and Combined List Literature	53
7.	Identification and Distribution of Sample Subjects	78
8.	Comparisons of Different Words Obtained, Removed, and Grade Placed	91
9.	Unique and Common Grade Placed Words	94
10.	Statistical Data of the Unique Words of the 1966 and 1926 Lists	94
11.	Grade Level Distributions of 2969 Words Common to 1966 and 1926 Lists	97

LIST OF TABLES-Continued

Table		Page
12.	Statistical Data of the Shift in Grade Placement on Common Words Between 1926 and 1966	97
13.	Statistical Description of Student Performances	101
14.	Comparison of 1926 and 1966 Samples and Performances	106
15.	Correlations of Percents of Sample, Running Word, and Average Reductions, Differences of Reductions, and Grade Levels	107

LIST OF ILLUSTRATIONS

Figure		Page
1.	Origins and Relative Positions of Related Vocabulary List Studies	9
2.	Frequency Time Line of Vocabulary Publications Listed by Dale and Razik	29
3.	Probable Vocabulary Development of the Average Child	47
4.	Operational Flow Chart of Data Preparation and Processing	81

CHAPTER I

NATURE OF THE PROBLEM AND THE STUDY

Background of the Study

Justification of Vocabulary Research

Edgar Dale wrote in 1956:

Certainly, in preparing reading materials for all levels of ability, we need to have information about the experiences, the interests, the needs, the background, the information already possessed by these readers. All suggest the need for vocabulary study. Words, after all, are the deposit of experience—the result of what we have done or are thinking. They are the bearers of meaning—the symbols which represent experience.

.,

To have data on the vocabulary of individuals whom we are trying to teach is imperative. Let us not call such data 'mere words.' Words represent the concepts, the distillate of previous experience. 1

McKee listed five ways vocabulary research can be, or is used:

- 1. It provides for a better selection of a spelling vocabulary.
- 2. It can insure better grade placement of a spelling vocabulary.
- 3. It can be used as a foundation for grammar courses.
- 4. It can assist in grade placing topics.



ledgar Dale, "The Problem of Vocabulary in Reading," Teaching Reading: Selected Materials, ed. Walter Barbe (New York: Oxford University Press, 1965), p. 108. Reprinted from Educational Research Bulletin, 35:113-123, May, 1956.

5. It can guide programs for developing reading vocabularies and meanings. 2

Knott listed fifteen research needs in the area of vocabulary.

Although some are not directly concerned with this study, all are presented to provide an overview of the vocabulary research potential.

- 1. There is a need for individual, longitudinal, "case-type" studies.
- 2. There should be some experimental work with programs intended for vocabulary development.
- 3. There should be identification, development, and utilization of esthetic and emotional vocabulary.
- 4. An effort should be made to determine how best to utilize vocabulary lists in making materials.
 - 5. There should be "case-type" work for semantic frequency.
- 6. There needs to be some effort made to identify educational experiences for specific vocabularies.
- 7. A greater effort should be made in controlling how vocabulary research is applied.
 - 8. Lists need to be developed of the "less-frequent" words.

Paul McKee, "Research Values in Children's Writing Vocabularies," Elementary English Review, 7:73-77, March 1930.

- 9. There is a need to identify "age" words, that is, words that are used most frequently by certain age groups.
 - 10. Dictionaries and glossaries need to be improved.
- 11. There needs to be more effective vocabulary control of subject area texts.
- 12. Vocabulary development should not be limited to basic grade-placed lists.
- 13. There is need for studies to determine if there are implications related to English vocabulary development and foreign language experience.
- 14. There needs to be a check to determine if vocabulary measurement techniques are valid.
- 15. There should be experimental work with reading and oral discussion activities to develop vocabulary. 3

Justification of the Reported Study

No literature was discovered that describes the form and the extent of the utilization of the Dolch lists in the classroom. A few titles suggest or imply usage. Betts named six lists that were

A BOOK TO SHAPE TO A CONTROL OF A CONTROL OF THE STATE OF THE PROPERTY OF THE

人名西斯 以此能 的复数形式 改造



Thomas A. Knott, "Observations on Vocabulary Problems: Critique of the Seventh Annual Research Bulletin of the National Conference on Research in English," Elementary English Review, 17:64-67, February, 1940.

Selected "... on the basis of their availability and general use."

One of these six is the Buckingham-Dolch Combined Word List.

This writer interviewed approximately 120 teachers regarding the Dolch lists. The following conclusions were drawn from the interviews:

- 1. The Dolch lists are familiar to most teachers in remedial and primary reading.
- 2. The use of the lists may be greatest in the area of remedial reading.
- 3. Few people are aware of the origins and the ages of the lists.

The only description found by this writer of the Basic Thousand List was by Dolch. He described it as being "very satisfactory" for research and "the most carefully prepared and tested vocabulary... now available." This writer compared the two lists and found that the Basic Thousand List includes the words of the Basic 220 List.

Emmett A. Betts, Foundations of Reading Instruction (New York: American Book Co., 1946), pp. 695-696.

⁵Edward W. Dolch, <u>Problems in Reading</u> (Chicago: The Garrard Press, 1948), p. 111.

Ruth Strang described the Dolch 220 List as consisting of fifty percent or more of the elementary school's reading matter.

Kirk and Johnson wrote that the teacher must constantly be evaluating vocabulary development; one method is the use of word lists such as Dolch's Basic Sight Vocabulary.

This writer was unable to learn from most of the publishers contacted what vocabulary list they used. According to descriptive literature, the Dolch lists are utilized in some of the materials prepared by Garrard, including the Dolch "Basic 220" flash cards.

Dolch indicated in a 1948 publication that he considered the Basic Thousand List to be one of the best available for measuring text readability. Dale and Chall wrote that their readability formula was based upon a study using Dale's First Three Thousand Words. This

Ruth Strang, Constance McCullough, and Arthur Traxler,
Problems in the Improvement of Reading (New York: McGraw-Hill
Publishers, 1955), p. 299.

⁷Samuel A. Kirk and G. Orville Johnson, Educating the Retarded Child (Cambridge, Massachusetts: Riverside Press, 1951), p. 264.

⁸Edward W. Dolch, <u>Teaching Primary Reading</u> (Chicago: The Garrard Press, 1941), p. 210.

⁹Dolch, Problems in . . , pp. 111, 238.

list came primarily from the Buckingham-Dolch Combined Word List. 10

Two recent publications of edited materials contain references to the Free-Association Study or the Buckingham-Dolch List. Edgar Dale, in Barbe's Teaching Reading: Selected Materials, includes the Buckingham-Dolch list with three others as chief contributors toward the knowledge of vocabulary frequency. He also refers to the Free-Association Study results as being more sound than others in regards to probable vocabulary development rate. 11

Albert J. Harris' edited title included an article by Dolch, dated 1955. In the article, Dolch referred to the Combined Word List as the "19,000 most common words" and as the primary source of data regarding frequency and difficulty of one-syllable and "long words". 12

The apparent classroom utilization and the references in current literature seem to indicate the significance of the Dolch lists as subjects for further research.



Edgar Dale, and Jeanne S. Chall, "A Formula For Predicting Readability," Educational Research Bulletin, 27:11-20, 28, January, 1948. p. 16.

¹¹ Dale, "The Problem of Vocabulary . . . ," pp. 108-112.

Edward W. Dolch, "Recognition of Long Words," Readings on Reading Instruction, ed. Albert J. Harris (New York: McKay Company, 1964) p. 225. Reprinted from Education, 75:604-608, May, 1955.

Lobdell wrote that teachers and authors control number and rate of new words by referring to vocabulary lists. These lists, in most cases, are "... pioneering and monumental words, having made important contributions to education " But, they are dated, restrictive, and from limited sources. The element of datedness is inherent in the latter two limitations, therefore it is likely to be the most serious. Even more recent vocabulary lists are dated, in that they include one or more of the standard lists of pre-World War II.

Lobdell finally recommended replicating several of the earlier studies. 13

The earliest publication reporting the Free-Association Study appeared in 1927. ¹⁴ From an interview with Mrs. Marguerite Dolch, it was established that the study was conducted in 1926. A 1928 publication, by Dolch, again reported the study and listed fifteen vocabulary studies to be used in the combined vocabulary list. ¹⁵

Lawrence O. Lobdell, "Let's Update the Word Lists," Elementary English, 42:156-158, February, 1965.

Edward W. Dolch, "Grade Vocabularies," Journal of Educational Research, 16:16-26, June, 1927.

Edward W. Dolch, "Combined Word Studies," Journal of Educational Research, 17:11-19, January, 1928.

In 1936, A Combined Word List, by Buckingham and Dolch lower published. The list was a composite of the Free-Association

Study and ten other vocabulary lists. The immediate and prior research of these eleven lists, 'h' through 'dd' in Figure 1 and Table 1 (pages 9 and 10), was conducted between 1914 and 1930.

In considering the dates of these lists, it seems appropriate to review some of the social changes. In 1926, Prohibition was seven years old and had seven years to go; Dr. Robert Goddard conducted his first liquid-fuel rocket demonstration; and, the first successful television transmission was performed. Also in that year, popular international awareness amounted only to concern over Mexican affairs and none of the significant events leading into World War II had yet occurred.

In 1927, Lindbergh made his transoceanic flight; and the first sound movie, "The Jazz Singer," appeared in New York. The Federal Radio Commission was formed and the first nationally scheduled radio broadcasts began. Jazz was becoming popular and socially acceptable, but not buying on credit. On the West Coast, unions were strongest in San Francisco, and were mainly for the skilled worker. The Teapot Dome Scandal was yet to become public.

Burdette R. Buckingham and Edward W. Dolch, A Combined Word List (New York: Ginn and Company, 1936).

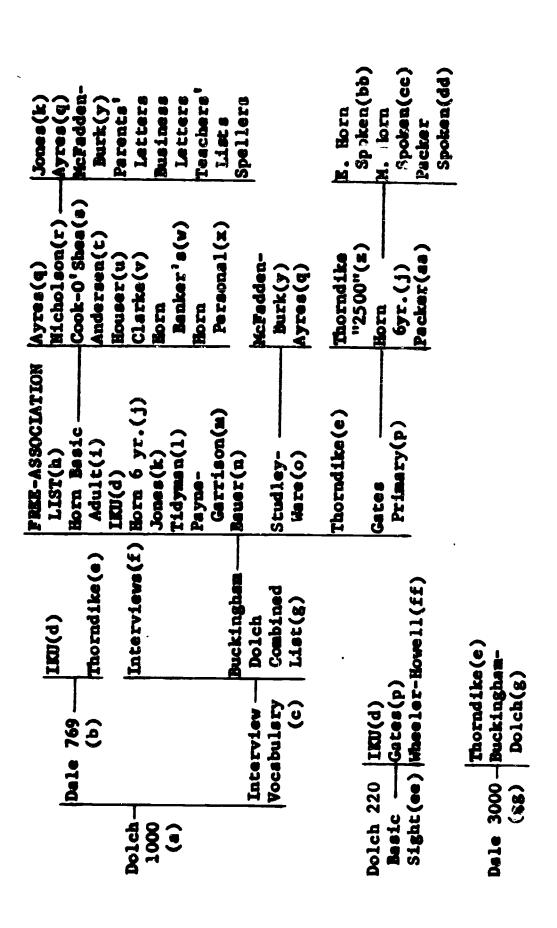


FIGURE 1

ORIGINS AND RELATIVE POSITIONS OF RELATED VOCABULARY LIST STUDIES

(Refer to TABLE 1, page 10, or "Vocabulary Research Included in A Combined Word List, " pages 54 - 73, for further information.

TABLE 1

SOURCES AND DATES OF STUDIES RELATED TO A COMBINED WORD LIST

DESCRIPTION	words to Dale's 769	s common to IKU (d) and First Thousand (e)		Words from (g) that 75% of first-graders knew in interview tests	2, 596 words from speech in kindergarten, home, and answers to questions from pictures	10,000 words primarily from adult writing and literature	he same study		Combination of (h) through (dd) directly and indirectly		15 minute period, list all words that come to mind, grades II-VIII	10,000 different words from 5, 137,000 gross words of social studies	Words with 15 f and on 3 lists, or 25 f and on 2 lists	Grades II-VIII, themes to cover life experiences	50,000 "spontaneous" compositions, grades, III -IX	rades III-IX	From themes of 90 topics to cover life and activities	List of 3,470 words from (q) and (y) plus 3,459 words from 920 compositions		Based on (2), (j), and (a2); presumed for grades I-II		S42 words common to personal and business letters	Combination of (k), (q), and (y) plus own research, presented as proposed speller	
DATE ²	1948 Added 245 interview words to Dale's 769	1931 769 words common to IKU (1948* Words from (g) that 75% of	1928* 2, 596 words from speech in	1921* 10,000 words primarily from	1932 20,000 words from the same study	See (c)	1936 Combination of (h) through		1927* 15 minute period, list all w	1926* 10,000 different words fron	1925 Words with 15 f and on 3 li	1915* Grades II-VIII, themes to c	1921* 50, 000 "spontaneous" com	1930* C, 852 words from grades III-IX		1914* List of 3,470 words from (9		1926 Based on (z), (j), and (az);		1913* 542 words common to pers	1914* Combination of (k), (q), a	
SOURCE	A:RM, WL	Cis, KM A:RM, WL	C:S, RM	C:TR	Cis, TR	A:RM, WL	C:RM		A:WL, RM	C:S, EC, WI, RM	C:W	A:WL	CiS	C:WC	C:WC	C:WC, WL	C:WC	A:WL	C:WC	A:RM, WL	Cis, RM	A:WL	A:WL	C:WC
usT ¹	e	, ૱	•	(0)	()	<u> </u>		દ	(S)	ì	(Ξ	: 3	3	: 6) (E	Œ	<u> </u>	•	<u>(a)</u>		(e)	E	• •

TABLE 1 (continued)

ıst ¹	SOURCE	DATE ²	DESCRIPTION
(S	A:WL	1914*	200, 000 running words from letters of 13 adults
. I	A:WL	1921*	Letters of doctors, bankers, farmers, and auto dealers; 56, 431 "nunning-words"
Ē	A:WL	1917*	1869 words from 65, 500 word sample of 750 farmers' letters
Ξ		1921*	Comparison of Ayers' list (q) and speller with adult letters to newspaper
≅	A:WL	1923*	Business letters of bankers, regionally identified; 2, 623 words obtained
×	A:WL	1922*	Unpublished: Highly personal letters of college students
Š	A:WL	1914*	840 f2+ words from 91 adult letters
(z)	A:RM, WL	1921*	Most frequent 2, 500 of 10, 000; see (e)
	C.RM		
(aa)	CIRM	1921*	Used 10 First Readers, conducted about 1918
(9 9)	CiS	1925*	Speech of 80 children, 1-6 years, reported in (j)
(cc)	CiS	1925*	Speech in kindergartens, reported in (j)
(pp)	CiS	1925*	Speech of first graders, reported in (j)
(ee)	Cts, TR, RM	1948	220 words common to (d), Gates' first 500, and (ff)
(ff)	CiRM	1930*	2, 219 different words in root form from 10 primers and ten $F_{\perp,\nu}$ t Readers
(88)	C:TR	1931	Approximately 3, 000 words known by 80% of 4th graders from 10, 000 word list common
			to (e) and (g)

	RM = Reading Materials	FA = Free Arsociation	TR = Test Response	
	W = Writing	L = Letters	-C = Compositions	
LEGEND:	A = Adult	C = Children	S = Speech	

¹Letters refer to identification on Figure.

²Date is of earliest literature identified with the listed study.

Andicates an original or initial study, or includes some original data.

It was the intent of this study, by its replicative nature, to determine if children's vocabularies have changed along with the many sociological changes since 1926, and if so, how and to what degree.

One major focus of current educational literature is the regional, socio-economic, and population class differences as related to learning readiness. In a cursory examination of Dale and Razik's bibliography, more than one hundred studies of this type were found. 17 Over half were conducted in the 1920's. The majority of those remaining was from the late 1950's. These later studies were limited in locale and sample variation.

It was provided within this study that the data collected here will be appropriate and available for such research at another time.

Educators are in general agreement that each child has several different vocabularies, however, there is less agreement as to how many and what types do exist. It is also commonly held by educators that school-type activities do not involve or identify all of the child's vocabularies. Labrant wrote that one of the problems for vocabulary research is to identify the unused vocabularies. 18



¹⁷ Edgar Dale and Taher Razik, Bibliography of Vocabulary Studies (Columbus, Ohio: Bureau of Education Research, Ohio State University, 1963).

¹⁸ Lou L. Labrant et al., "Needed Research in Language Expression," Elementary English Review, 29:35-38, January, 1952, p. 36.

In a review of the Dolch lists, this writer found that of the fourteen related vocabulary lists, only the Free-Association Study was not stimulus-oriented; that is, the vocabulary source was not from materials or setting related to a specific subject area, task, or interest. The Free-Association method appears to be least restrictive of all methods by the absence of a control stimulus, thus the "non-school" or "real" vocabularies are more apt to appear.

The relative position of the Free-Association Study in the origins of the various Dolch Lists, Figure 1 (page 9), and the above described uniqueness of the study's method seemed to indicate that if changes in children's vocabularies had occurred, it would most likely appear in a replication. Further, such a study would be significant to future lists and research similar to the 1926 study's descendants.

In the 1927 publication, Dolch reported the Free-Association Study. ¹⁹ In 1928, the study was again mentioned and the procedures for combining the results with other studies were described. ²⁰ In 1936, the Combined Word List was published, which included a description of the Free-Association Study. ²¹ This writer has

¹⁹ Dolch, "Grade Vocabularies."

²⁰ Dolch, "Combined Word"

²¹ Buckingham and Dolch.

identified what may be significant omissions and contradictions in that literature. The foregoing are discussed fully in Chapter II.

It was hoped that a replicative study would provide answers to many of the questions that arose from the study of the literature.

Dolch wrote that despite some of their shortcomings, word counts have real value and should not be discarded. If the count is wide enough and carefully done, nearly every word of a population may be obtained. Such studies can lead toward other methods or sources or provide a base from which to begin. 22

It was intended that the results of this study would implement this writer's decisions regarding direction and methods of future research.

Summary

The four most significant vocabulary lists in the areas of reading, writing, and spelling are the International Kindergarten Union
List, Thorndike's List, the Buckingham-Dolch Combined Word List,
and the Dale-Chall List. The IKU List was published in 1928;
Thorndike's first publication was in 1921; and the Buckingham-Dolch
List was published in 1936. The Dale-Chall List, published in the



Edward W. Dolch, Methods in Reading (Champaign, Illinois: The Garrard Press, 1955), pp. 242-243.

late 1940's, involved the merging and tabulation of data of which some was originated by Thorndike and Dolch.

Vocabulary is a record of life experiences; and since life has changed in the past four decades, it seems safe to assume that these lists may no longer be adequate. To correct this weakness, it is necessary to repeat those studies that have had the most significant influence upon instruction. The suggestion for replicating these studies is based upon their historically established value. That several different studies must be repeated is based upon the facts that (1) different sources and methods are used, and (2) by combining results, reliability is more assured. This study is a step in that direction. The selection of this particular study was based upon the opinion that because of its method, it is the most susceptible to contemporary vocabulary usage.

This writer feels the study is justified when the following are considered:

- 1. The instructional uses of vocabulary information;
- 2. The limited knowledge of vocabularies;
- 3. Current use by teachers of the Dolch and other lists;
- 4. The assumed usage of vocabulary lists by publishers;
- 5. The inclusion of this early research in current literature;



- 6. The sociological changes since the time these studies were conducted;
- 7. The different vocabularies of children and the concern for learning activities to be closer to "real child life";
- 8. The uniqueness of the Free-Association Study method, which appears to be the least restrictive and most sensitive to contemporary child-life; and,
 - 9. The inadequacies of the reporting literature.

Purpose of the Study

The primary purpose of this study was to measure the reliability of the Buckingham-Dolch Free-Association Word Study and thus determine the present-day validity of the Free-Association Word List.

The secondary purposes of the study were:

- 1. To provide an initial study to determine the necessity and direction for further research of similar nature.
- 2. To provide a pilot-study for the methods developed and used by this experimentor. The literature reporting the original Buckingham-Dolch Study overlooked several procedural steps in administration and data analysis.
- 3. To obtain data for future studies of vocabulary differences related to occupance, sex, and regional differences.

4. To obtain a word list for supplementary use in local class-rooms.

Hypotheses of the Study

To determine the current appropriateness of the Free-Association Vocabulary Study List, the following hypotheses were tested:

HYPOTHESIS I: There is no significant percent of unique words in the 1926 or 1966 lists.

This hypothesis was tested with the 1926 list and then with the 1966 list by computing the Critical Ratio between the percent of unique words and the computed standard error of the percent.

HYPOTHESIS II: There is no significant percent of common words that changed grade placement between the 1926 and 1966 studies.

This hypothesis was tested by computing the Critical Ratio between the percent of common words that change grade placement and the computed standard error of the percent. These procedures were repeated using only the words that moved downward and then only the words that moved upward in grade placement. The purpose was to determine if there was a significant directional trend. Since both the downward and upward percents were significant, the significance of the difference between the percents was computed.



Interpretations of significance were made at the (.01) level, in all of the analyses.

Procedures of the Study

In so far as possible, this study was a replication of the 1926 Buckingham-Dolch Free-Association Word Study. The Sample was almost two thousand students per grade, grades two through six, inclusively.

The Sample Sites were from consolidated school districts, distributed north-south, on the Willamette Valley Plain, as illustrated by Dicken. Districts having a rural-nonrural enrollment ratio closest to one-to-one were selected. An exception was made in order to obtain a Sample Site in the Greater Portland region.

The response period was administered by classroom teachers from a prepared monologue. The students were instructed to, "Think of and write down, all the different words that you can." The students were allowed fifteen minutes.

The words were alphabetized, counted, and tabulated within each grade level by computer according to the criteria established by Buckingham and Dolch.

²³ Samuel N. Dicken, Oregon Geography (Eugene, Oregon: University of Oregon Cooperative Bookstore, 1950), pp. 10, 12.

A grade-level list of words, arranged in sets of identical frequencies, was submitted to a panel of classroom teachers for each grade. The teachers selected one of the frequency sets as most illustrative of vocabulary achievement in that grade. The frequency of the set most often selected became the minimum frequency for grade placement. The resulting Grade Level List was then statistically compared to the 1926 list.

Limitations of the Study

The limitations of this study were of two categories: (1) those occurring in all vocabulary research and (2) those unique to this study.

These limitations either reflect or call for assumptions.

Two basic problems of vocabulary research create limitations in all such studies. They are the definitions of "word" and "know." Conclusions regarding size and scope of children's vocabulary and whether some words should be listed more than once, some listed separately, or some not listed at all, depend upon the operational definition of "word" in that particular study. The definition of "know" influences the number and extent of generalizations or implications that can be formed regarding language abilities.

For the purposes of this study, and following precedent, this investigator assumed that a "word" is any orthographic symbol,

ERIC Full Text Provided by ERIC

established in dictionaries, that is not a proper noun, contraction, abbreviation, or slang with all regular forms tabulated in the root form. This definition created three additional limitations:

- 1. The study does not provide knowledge to the extent of word usage in relation to meanings.
- 2. The study does not provide complete information regarding contemporary nor colloquial vocabularies.
- 3. The study assumes that regular inflectional word forms are not as distinct from the root forms as are irregular forms that seem to create different or more difficult learning problems.

To develop a definition of "know" for this study it was necessary to consider the behaviors of the students in the response period and review the obtained data. None of the literature reviewed presented definitions or detailed discussion of "know." The behavioral definition of "know" in this study was as follows: The students knew the words to the degree that they (1) could recall the words, (2) felt they could spell them correctly, and (3) were able to spell them in a form recognizable to reading authorities. The definition, stated in this manner, emphasizes that any generalization from the results of this study that implies other student behaviors must be tentative.

A third problem in vocabulary research is an assumption critical to all frequency counts of children's word usage. Dolch, in



1955, stated the assumption as follows, "... children use all the words they know and use them in proportion to their familiarity with them."

There were three limiting assumptions unique to this particular study. The administration of the Response Period was directed by the classroom teachers. It has been assumed by the investigator that the controlled monologue, stated in International Kindergarten List words, and the number of teachers and students erase any individual teacher influence upon the data.

The Sample is from the largest consolidated school districts on the Willamette Valley Plain. It appears that this is one of the very few studies where the Sample was intended to represent a geographic area with the geo-physical boundaries defined. The related assumptions are (1) the Sample schools are representative of the schools in the area and (2) any differences between the 1926 and 1966 results are related to sociological differences that have historical and regional origins.

No replicative research has been discovered where inferential statistics were used, thus there is no precedent to follow. It has been assumed that percent is appropriate with the large sample

ERIC

Dolch, Methods in . . . , p. 241

size and that Critical Ratio of percent may be applied as described by Garrett. 25

Definition of Terms

Alpha Sort. A computer programming term indicating that the data has been re-arranged into an alphabetical order.

Category Cell. The Response Sheets from each grade were separated into male and female groups and then into rural-type and urban groups. This created four groups in each grade. Each was then called a Category Cell.

Cell. See "Category Cell".

Common Word. The general vocabulary research term to identify a word found on more than one list or in more than one source when comparisons are being made.

Control Stimulus. A testing term to indicate that the responses are directed to or made with the stimulus in mind.

Credit. A vocabulary research term synonomous with exponent when weighting factors. Usually based on relative frequency and/or number of different sources in which word was found.

Criterion Frequency. A term in this study to identify the minimum frequency for grade placement.



²⁵Henry E. Garrett, Statistics in Psychology and Education (5th ed. rev.; New York: McKay Company, 1965), pp. 197, 235-236.

Critical Ratio. A statistical measure obtained by dividing the value of an item by the standard error of the item. The Critical Ratio is treated in much the same way as the t-ratio. It assumes a large Sample and normal distribution.

Data Cards. A term used in this study to identify the key-punch cards that were made from the Response Sheets and not yet edited.

Dictionary Method. The vocabulary research term identifying the research technique of testing vocabulary response by a sample list from a dictionary. The percent of correct responses is usually then multiplied by the sample ratio - the dictionary.

Dictionary Tabulation. A vocabulary research term to identify how the obtained words are listed. The list appears as in a dictionary with all regular inferential forms listed with the root.

Different Words. The vocabulary research term indicating the number of words in a sampling when all repetition is eliminated and all words that do not meet any other criteria for listing.

<u>Dump</u>. A computer programming term. When a print-out of the data is made as it appears on the recording material with no data processing occurring.

Edit Cards. The term used in this study to identify those keypunch cards that are used to edit data on the magnetic tapes.



Free-Association. The vocabulary research term identifying the method of this study. The vocabulary responses may be of any type or subject; there is no orienting stimulus.

Frequency. A vocabulary research term meaning the number of times a word occurs in one or more sources. It may or may not include forms other than the root. In this study, it is also the number of different children who list the word or its regular inferential forms.

Grade-List. At the end of this study, the words obtained and judged appropriate for each grade are listed alphabetically in separate lists for each grade.

Gross Words. A vocabulary research term identifying the total number of words in a source, including repetition and any words in the source not meeting specified criteria for tabulation.

Master-List. Along with the Grade-Lists presented at the end of the study, the words from all grades are combined in alphabetical order and listed with their grade-level source.

Net Words. See "Different Words".

Non-Rural. This term was operationally defined for this study as those students who identified themselves as not living "out of town". This did not respect city incorporate boundaries.

Outside Words. A vocabulary research term to identify words not found on a vocabulary list to which a comparison is being made.

Usually a readability appraisal is being made.

Phase. A programming or administrative term indicating a point where data processing is different from what was done just previous.

Print-Out. A computer programming term identifying when the stored data, the processing, or the results of processing are printed by the computer.

Range. The vocabulary research term identifying the number of sources of a defined number of possible sources from which a word came. It may be expressed as the number of sources, as a percent, or as a fraction.

Regular Inflectional Form. Any form of a word where the addition of a suffix does not change the root meaning of the word.

Plural, superlative, and the "ing" and "en" endings are the common examples.

Response Period. The term used in this study to identify the time when the students listed the words.

Response Sheet. The form on which the student made his list of words.

Running-Words. See "Gross Words".



Rural. The term used in this study to identify those students who described themselves as living "out of town".

Sample Site. The term used in this study to identify any school building participating.

Sample School. See "Sample Site".

Standard Error of the Percent. A statistical term identifying the range of one standard deviation of the mean of the percent likely to occur if the measure were repeated.

Stimulus Control. A testing term indicating that some control of stimulus or administration exists. It may or may not include a control stimulus.

Tabulation. A vocabulary research term identifying the listing method of the obtained words.

Type-Token Ratio. A vocabulary research term identifying the ratio of different words to running words.

Urban. See "Non-Rural".

Unique Word. The term used in this study to identify any word as coming from only one of two or more sources when a comparison is made.

Verbatim Data. A research term identifying data that is a record of all that was said.

Word. The term as operationally defined for this study means: any orthographic symbol, established in dictionaries, that is not a proper noun, contraction, abbreviation, or slang with all regular forms tabulated in the root form.



CHAPTER II

REVIEW OF THE LITERATURE

Trends of the Literature

This writer developed a frequency time-line of publications

(Figure 2, page 29) from Dale and Razik's bibliography. The number of publications per year increases rapidly after 1920; however, trends in the publications raise questions as to the general educational significance of the more recent literature. First, almost all of the well-known vocabulary lists come from the 1920's and 1930's:

IKU (1928), Gates Primary (1935), Thorndike (1921, 1932, 1944),

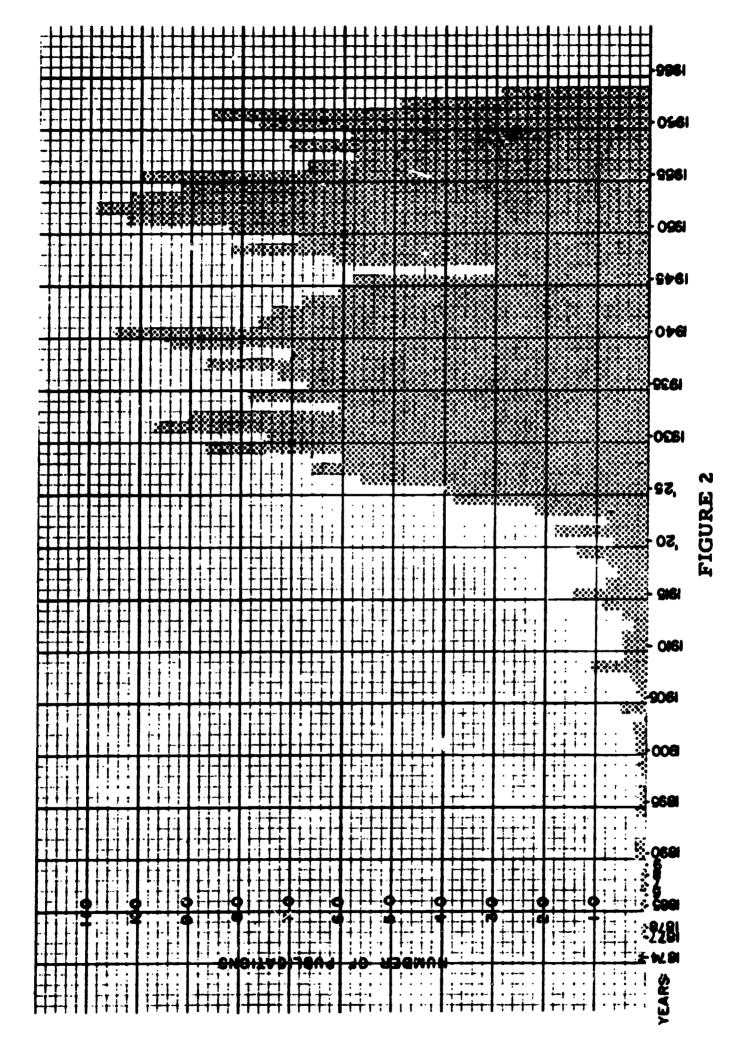
Ledgar Dale and Taher Razik, Bibliography of Vocabulary Studies (Columbus, Ohio: Bureau of Educational Research, Ohio State University, 1963).

Madeline D. Horn (Chairman), A Study of the Voctbulary of Children Before Entering the First Grade (Washington, D.C.: International Kindergarten Union, 1928).

Arthur I. Gates, A Reading Vocabulary for the Primary Grades (2d ed. rev.; New York: Teachers College, Columbia University, 1935).

The second and third publications are extensions of the same data for the first study. Edward L. Thorndike, The Teacher's Word Book (New York: Teachers College, Columbia University, 1921);

A Teacher's Word Book of 20,000 Words (New York: Teachers College, Columbia University, 1932); and Edward L. Thorndike and Irving Lorge, A Teacher's Word Book of 30,000 Words (New York: Teachers College, Columbia University, 1944).



FREQUENCY TIME-LINE OF VOCABULARY PUBLICATIONS
LISTED BY DALE AND RAZIK

ERIC

Horn Basic Writing (1926), ⁵ Rinsland (1945), ⁶ and Buckingham-Dolch (1936). ⁷ Second, in categorizing the more recent titles listed in Dale and Razik it appears that the majority of studies are concerned with socio-economic minority groups or special-education type students.

Only one replicative investigation was found in the literature.

That study, completed by Kolson in 1960, has two other features,
besides replication, that relate it to this study. The replication was
of the International Kindergarten Union word study directed by
Madeline Horn. The IKU words were removed from the FreeAssociation List in 1926 and again, in 1966. The other relating factor
is that both Kolson's study and the study reported here included
students from the Greater Portland, Oregon, area as part of the
samples.

Kolson used a sample of 494 students from Portland, Pittsburgh, and Washington, D.C. He collected 897, 973 running words by tape recorder in three different situations.

491, 129 words in free play 307, 883 words in responses to pictures and questiona 98, 961 words in the home

⁵Ernest Horn, A Basic Writing Vocabulary (Iowa City; Iowa: University of Iowa, 1926).

⁶Henry D. Rinsland, A Basic Vocabulary of Elementary School Children (New York: MacMillan Co., 1945).

⁷Burdette R. Buckingham and Edward W. Dolch, <u>A Combined</u> Word List (New York: Ginn and Company, 1936).

Those words with a frequency of seven or more and listed in the 1954 Webster's International Dictionary, were included in the final list of 3,728 words. This was an increase of 1,132 words over the 1928 list. Kolson found that 97% of the basal reading text vocabularies were included; mechanical words had replaced natural words; baby talk and animal noises had disappeared; and 80% of the original IKU List remained. 8

Problems and Criticisms of Vocabulary Research

Dolch's description of the basic assumption related to vocabulary research that was cited in Chapter I, bears repeating. He stated that one of the major vocabulary research problems rests in the basic assumption that "... children use all the words they know and use them in proportion to their familiarity with them."

Dale presented data that described the problem of the number of different words necessary to obtain a certain proportion of the total writing vocabulary. The first column indicates the number of different



⁸Clifford J. Kolson, "Oral Arithmetic Vocabulary of Kinder-garten Children," The Arithmetic Teacher, 10:81-83, February, 1963.

Edward W. Dolch, Methods in Reading (Chicago: The Garrard Press, 1955), p. 241.

words that usually accounts for the percent of written vocabulary shown in the second column.

Number of Words	% of Writing Vocabulary
50	50.0
1,000	90.0
2,000	95.0
3,000	97.0
4,000	98.0
10,000	99.4

The accompanying question would be: How many running words are necessary to obtain 1,000, 2,000, or 10,000 different words?

Dale, in 1931, also listed problems in conducting vocabulary research. A review of current vocabulary research literature indicated these problems still exist.

- 1. Lack of adequate bibliographies and unpublished theses.
- 2. An accepted, operational definition of "word."
- 3. An accepted, operational definition of "know."
- 4. Lack of criteria for selecting the test form or method to use.
- 5. No validation of research results; comparing word knowledge and later success.
- 6. The lack of a system for eliminating word load in material surveys for ease of counting and still maintaining a reliable ratio procedure.

¹⁰ Edgar Dale, "Vocabulary Measurement: Techniques and Major Findings," Elementary English, 42:895-901, October, 1965, p. 896.

- 7. The size and cost of studies.
- 8. The lack of results entering practice.
- 9. The researcher not planning, designing, nor suggesting, for utilization of his results.

In discussing validity and reliability of adult vocabulary lists,

Horn presented criteria that could be applied to any level vocabulary

list. He claimed that many appraisals are made on the basis of gross

frequency, or amount of response, and that this should not be so,

since selectivity, of some kind, always exists. Horn suggested

additional criteria as follows:

- 1. What was the sample distribution in terms of population cross-section?
- 2. What was the spread into various life activities? What were its size and proportions?
 - 3. What is the quality of the words and their sources?
 - 4. What was the geographic distribution?
 - 5. What is the cruciality of the list and its words? 12

Edgar Dale, "Difficulties in Vocabulary Research,"

Educational Research Bulletin, 10:119-122, March 4, 1931, pp.
119-122.

Ernest Horn, "Validity and Reliability of Adult Lists,"
Elementary English Review, 16:129-134, April, 1939, pp. 129-131.

Coleman developed evaluative criteria for the vocabulary data gathering method used.

They are:

- 1. There should be objective measurements and quantitative results.
 - 2. There should be a large number of subjects.
 - 3. The student activities under analysis should be typical.
- 4. The subjects should be representative of the population:

 (a) age, sex, intelligence, geography, economy, and occupation;

 (b) proportional representation; and (c) adequate representation of the whole group of which they are samples.

In 1940, Thorndike presented thirteen general criticisms of vocabulary research and vocabulary lists of that time. Since some of the criticisms are universal and most of today's teaching and research relies on those earlier works, the criticisms are still appropriate.

- 1. The length or size of the source materials for the lists are not given in the reports. This raises the questions of normality of the sources and appropriateness of the sampling ratio.
- 2. The sizes of the base lists (total number of different words obtained) are not given. This would reflect on the adequacy of the size of the study's final list and its tabulation criteria.

¹³William H. Coleman, A Critique of Spelling Vocabulary Investigations (Greeley, Colorado: Colorado State Teachers College, 1931), pp. 51-52.

- 3. There are discrepancies between the counters within the same study. This may be a chance, mathematical error in the counting or it may be a consistent, biased error of interpretation and application regarding sampling procedure or the treatment of misspellings, repetitions, word forms and abbreviations, or different context forms.
- 4. Some of the data is not presented. Words with small frequencies are not listed or extreme variances among vocabulary sources are not described.
- 5. Some of the counts are limited in vocabulary content, and may not be so identified, ie; compounds, prefix-suffix forms, slang, contractions, proper nouns, words from envelopes in correspondence studies.
- 6. Response lists give strings of nouns, few prepositions, conjunctions, pronouns, and auxiliaries.
- 7. Timed-response periods are dependent upon previous mental-set.
- 8. The percent of grade-level usage is not indicative of mental ability or experience but of the two and their interaction, and should be so interpreted.
- 9. Spelling difficulty of words has been confused with student's past experiences and attention at the time of spelling.



- 10. The idea of a best set of words disregards the heterogeniety of the students. The effort should be to establish a basic 90% of most reasonable words to expect the student to know.
- 11. The lists may discourage additional development and instruction by the teachers.
- 12. There has been too much emphasis on the lists as perfect prescriptions of order and level.
- 13. The lists can be used for evaluation of material; therefore, the publisher should be required to list and locate the "outside" words (words not on a list) in their materials.

Several studies have been conducted to determine validity and reliability of vocabulary research techniques. Two are presented here to further illustrate the research difficulties. Leifste attempted to determine the minimum sampling pattern necessary for measuring the vocabulary and readability of material. She used the Yoakam formula upon several texts. She obtained variations each sampling time; fifteen selected pages seemed the most practical and adequate pattern; for high accuracy, every tenth page should be counted. 15



Edward L. Thorndike, "Value of Word-Counts: Critique of the Seventh Annual Research Bulletin of the National Conference on Research in English," Elementary English Review, 17:60-62, February, 1940, pp. 60-62.

¹⁵ Bertha V. Leifste, "An Investigation of the Reliability of the Sampling of Reading Material," <u>Journal of Educational Research</u>, 37:441-450, February, 1944, pp. 44, 449-450.

Hartman evaluated the "dictionary-method" for determining vocabulary size. First, the experimentor prepares a list sampling from a dictionary on a mathematical-ratio basis. The list is then administered to individuals. The individuals score of known words is then multiplied by the sample ratio and the product is the "known vocabulary."

Hartman found that the size of the dictionary significantly influenced the size of the "known vocabulary," with the same individuals. Also, the size of the list, from the same dictionary, influenced the percent of correct responses of the same individuals. He further concluded that the research of that time, 1941, was too conservative, that the comprehension or recognition vocabulary of the college student and graduate was more likely to be more than 200,000 words. ¹⁶

Literature Related to the Free-Association Study

The following discussion describes the original Free-Association

Study as presented in the literature. Within the description, the

previously mentioned discrepancies and omissions will be identified.



George W. Hartman, "Critique of the Common Method of Estimating Vocabulary Size, Together with Some Data on the Absolute Word Knowledge of Educated Adults," <u>Journal of Educational Psychology</u>, 32:351-358, May, 1941, pp. 354-355, 357.

The discrepancies are listed in Table 2 (page 39), which may help the reader to follow the discussion.

In 1927, Dolch presented an article describing the Free-Association Study. This was followed in 1928, by a second article again reporting the Free-Association Study and also describing the Combined Word Studies project, then in progress. The result was to be a combined list of words from fifteen major vocabulary studies, including the Free-Association List. Finally, in 1936, A Combined Word List, including the Free-Association Study, was published.

Only eleven, rather than fifteen lists as originally proposed, were included. Several of the eleven were not in the original proposal.

Purposes of the Free-Association Study

The primary purpose of the original study, as stated by

Buckingham and Dolch, was to determine which words were known by

children within each grade, grades II through VIII.

A second purpose was to extend the vocabulary research beyond the limitations of previous studies that used stimulation or association techniques. These other studies had been from specific material which tended to narrow the scope of the vocabularies obtained. 17

¹⁷ Buckingham and Dolch, pp. 3-4.

TABLE 2

COMPARISONS OF DESCRIPTIONS OF THE FREE-ASSOCIATION STUDY

ITEM	1927 ¹⁸	1928	1936
Time	15 minutes	same	same
Methods ·	Free -Association	same	same
Sample Source	1/2 from small towns of Illinois, 1/2 from New York City and Brooklyn	same	plus "4, 000" from New England (5489)
Number of Subjects	16, 206	No mention	21, 695
Total Words	2, 312, 000 (2, 012, 245)	No mention	2, 414, 897
Obtained Words		No mention	12,001
"1-f" Words	3, 039	No mention	2, 481
Words Grade-Placed	9, 583	No mention	9, 520
IKU Words	included	No mention	excluded
Tabulation Criteria	Thorndike's rules minus abbreviations, contractions, reduces 10,000 list to 9,312	No mention	as 1927 reduces 20,000 list to 17,890
Grade-Place Criteria	2-f	No mention	2-f except for grade II, 3-f
Number of Lists Used	No mention	15	11

¹⁸ Dolch, "Grade. . . . "



Edward W. Dolch, "Combined Word Studies," <u>Journal of Educational Research</u>, 17:11-19, January, 1928.

²⁰ Buckingham and Dolch.

Rationale for the Free-Association Method

The basic technique in this study was to have the student write down all the words that came to mind in a period of fifteen minutes. Buckingham and Dolch wrote that limitations, due to suggestion, did exist at first, but were soon "exhausted" and wide variance of associations did occur within the fifteen minute period.

A second effect of this technique was to reduce the number of "running-words" necessary to obtain an adequate list of different words. The Free-Association "net" was closer to the "gross" in comparison to other research methods.

Samples for the Free-Association Study

Almost one-half of the sample was from small towns in Illinois, the other half was from New York City and Brooklyn. 22 The reason for selecting these sample sites was to reduce the influence of environmental variations. 23

In the report of 1936, Buckingham and Dolch wrote, "... part of our 4,000 lists from the grade (grade II) were written by children



²¹ Buckingham and Delch, p. 4.

Edward W. Dolch, "Grade Vocabularies," Journal of Educational Research, 16:16-26, June, 1927, p. 17.

²³ Buckingham and Dolch, p. 4.

from various towns in New England."²⁴ This writer interpreted this to mean, there were 4,090 second-grade lists, part of them coming from New England. However, the 1936 report showed 7,560 second graders. Since grades III through VIII have the same number of students between the 1927 and 1936 reports (shown in Table 3, page 42), the increase appeared to be only in the second-grade. This increase was 5,489 students, far more than 4,000 or "part of 4,000." The difference between the totals of the two tables supported the 5,489 figure.

Administration and Tabulation of the Free-Association Study

The only reported administration procedures were as follows:
the research was conducted "... at the end of the school year,"
and the children were instructed to write any words that came to
mind in 15 minutes. The identity of administrators, description of
the settings, control of instruction delivery, and method of recording
and collecting the student's lists were not presented.

The 1927 report (Tables 2 and 3, pages 39 and 42) indicated that a total of 2,312,245 "running-words" was obtained from 16,206



²⁴ Buckingham and Dolch, pp. 4-5.

Buckingham and Dolch, pp. 4-5; and Dolch, "Combined Word . . . , " p. 12.

TABLE 3

COMPARISON OF FREE-ASSOCIATION DATA TABLES PRESENTED IN THE 1927 AND 1936 LITERATURE²⁶

Grade		1927 LITERATURE	10 1		1936 LITERATURE	E
	Number of Children	Avg. Words per Child	Total Words per Grade	Number of Children	Avg. Words per Child	Total Words per Grade
II	2,071	73	149, 228	7.560	73	551. RRO
Ħ	2, 208	8,	198, 720	2, 208	: 8	198.720
71	2, 350	140	329,000	2, 350	140	329,000
>	2, 335	1.55	361,925	2, 335	155	361, 925
*	2, 360	164	387,040	2,360	16.	387,040
3	2,430	172	417,960	2, 430	172	417,960
VIII	2, 452	191	168, 372	2,452	191	168, 372
Totals	16, 206	•	2, 312, 245	21, 69\$		2, 414, 897

26 Buckingham and Dukch, p. S. and Dolch, "Grade . . . p. 17.

children. The 1928 publication stated 2, 312, 200 were obtained, with no mention of sample size. The 1936 publication reported 2, 414, 897 "running-words" were written by 21, 695 children. Comparing the 1927 and 1936 totals, a difference of 102, 897 appeared. The gain of 5, 489 second-graders and an average of 73 words per child (Table 3), however, were cause to have predicted an increase of 410, 697 "runningwords." In checking the data, this writer discovered an error of addition in the 1927 report. The final total should have been 2, 012, 245, not 2, 312, 245 as shown. This created a difference of 402, 562 words, which was closer to the predicted figure.

Several rules for tabulation of the words were adopted and established. From Thorndike, the authors used the following: Except for special reasons, separate entries are not made of (1) plurals in s; (2) plurals where y is replaced by ies; (3) adverbs formed by adding ly; (4) comparatives and superlatives formed by adding er and est, or r and st; (5) verb forms in s, d, ed, and ing. ²⁷ In fact, regular inflectional forms were combined into one form for either the noun, the verb, the adjective, or the adverb; irregular inflectional forms were separate entries.

In addition, Buckingham and Dolch eliminated the following:



²⁷ Thorndike, The Teacher's Word . . . p. v.

- 1. Proper names
- 2. Abbreviations
- 3. Contractions
- 4. Archaic or poetic verb forms

According to the authors, these additional criteria reduced Thorndike's lists, 1921, and 1932 editions, ²⁸ from 10,000 and 20,000 to 9,312 and 17,890 words, respectively. ²⁹

In 1927, 1928 and 1936 publications all reported that the tabulation criteria reduced the total different words to 12,622. 30 This was of interest to this writer, since it was expected that with an increase of 5,489 students and an increase of 402,652 "running words" between 1927 and 1936 (Table 2), there would also be an increase of different words.

Between the time of the field-study report in 1926, and the presentation of the Combined Word List, the results of the International Kindergarten Union study were published. 31 This list of 2,596 words

ERIC

Thorndike, The Teacher's Word . . . and A Teacher's Word Book of the 20,000

Buckingham and Dolch, pp. 5-6.

Buckingham and Dolch, p. 15; Dolch, "Combined Word...," p. 18; and Dolch, "Grade...," p. 20.

³¹ M. D. Horn, A Study of the Vocabulary of . . .

was reduced to 1,759 words when submitted to Buckingham and Dolch's tabulation criteria. These 1,759 words were eliminated from the list of obtained words. Buckingham and Dolch felt the IKU study had sufficiently established these words as pre-school and first-grade. 32

To grade place the words, the list of obtained words were arranged into Frequency Sets within each grade. Each Set included all of the words from that grade and with the same frequency. These Sets were then evaluated by the authors and their assistants. They identified the Frequency Set they would describe as being closest to grade-level without adding or eliminating words for each grade. The assumption was that equal frequency meant equal knowledge. 33

In 1926, the frequency of two or more was selected as having the group of words closest to grade-level, for all grades. ³⁴ In 1936, a frequency of three or more was established for the second grade by the same method; the frequency of two or more remained for the other grades. ³⁵

³² Buckingham and Dolch, p. 6.

³³ Buckingham and Dolch, p. 10.

³⁴ Dolch, "Grade . . . ," p. 19.

³⁵ Buckingham and Dolch, pp. 10-11.

Based on Thorndike's research summary of vocabulary development, ³⁶ and using the International Kindergarten Union's study, suggesting 2,000 words as the base, ³⁷ Buckingham and Dolch constructed a curve of vocabulary development. The curve was based on the averages of vocabulary achievements at the end of the various grade levels. The annual vocabulary increases were estimated by determining the differences between the average achievements.

Figure 3 (page 47) presents the curve with the achievements and increases indicated. The graph shows total grade achievements of 2,800 words at the end of the first grade, 3,600 at the end of the second grade, 7,500 at the end of the sixth grade, and 10,000 at the end of the eighth grade. The included table shows annual increases of 800, 800, 900, and 900 for grades one through four, 1,100 for grade six, and 1,300 for grade eight.

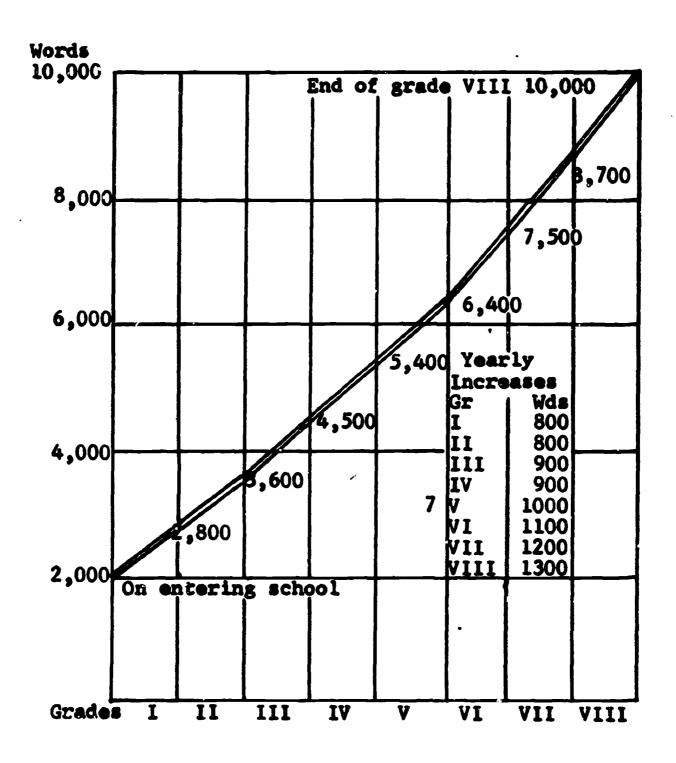
The authors applied the increase projections to the obtained grade-placed lists, to determine if the lists were reasonable in size.

In their judgement the grade-placed lists were reasonable in size,



³⁶ Edward L. Thorndike, "Vocabularies of School Pupils," Contributions to Education, New York Society for the Experimental Study of Education, Volume I (Terrytown-on-Hudson, New York: World Book Company, 1924).

³⁷ M. D. Horn, A Study of the Vocabulary of . . .



PROBABLE VOCABULARY DEVELOPMENT
OF THE AVERAGE CHILD

ERIC *

³⁸ Buckingham and Dolch, p. 9.

therefore the established frequency criteria were maintained.

Results of the Free-Association Study

Table 4 (page 49) includes the number of words placed in each grade as reported in the 1927 and 1936 publications.

The 1927 publication reported 9, 583 words were grade placed, and the 1936 publication reported 9, 520 words were grade placed. The major differences between the two reports appeared in the primary grades. While no words were assigned to preschool in 1927, the 1,759 IKU words were so assigned in 1936. The second grade assignments dropped from 1,964 words in 1927 to 984 in 1936, the third grade assignments dropped from 1,179 in 1927 to 863 in 1936, and the fourth grade assignments dropped from 922 in 1927, to 767 in 1936.

It seems relevant at this point to consider other data that indicate another discrepancy in the publications. Table 5 (page 49) is related to this discussion. As previously cited, all three publications reported 12,622 different words remained after the tabulation

Buckingham and Dolch, pp. 8-10; and, Dolch, "Grade...," p. 20.

TABLE 4

COMPARISON OF FREE-AS-OCIATION GRADE-PLACED WORDS AS REPORTED IN THE 1927 AND 1936 LITERATURE

LEVEL	NUMBER OF WORDS	
	1927	1936
Preschool*		1759
п	196 4	984
Ш	1179	863
IV	922	767
v	1278	1100
VI	1340	1260
VII	1521	1448
VIII	<u>1379</u>	1339
Total**	9583	9520

*The International Kindergarten Union words are within the distribution of 1927, rather than separated as in 1936.

**The 1936 figures come from a sample source that is 5, 489 second-graders larger.

TABLE 5

MATHEMATICAL RELATING OF THE 1927 AND 1936
REPORTS BY THE 1759 IKU WORDS

	1927 REPORT	1936 REPORT
(1) Total Words	12, 622	12,622
(2) Not Grade Placed	-3, 039	<u>-2,481</u>
(3) Total #1	9, 583	10, 141
(4) IKU Words		1,759
(5) Total #2	9, 583	8, 382
(6) IKU Words	1.759	
(7) Total #3	7,824	8, 382

⁴⁰ Dolch, "Grade. . . , " p. 20.



^{41:} Buckingham and Dolch, p. 12.

criteria were applied (row 1). The 1927 article reports 3,039 words were not grade placed and the 1936 article reports 2,481 words were not grade placed (row 2). This leaves remainders of 9,583 and 10,141 words (row 3). The 1,759 words found on the IKU List were eliminated ir 1936 (row 4), leaving a total of 8,382 words, the 1927 word count remaining the same for the moment. If the IKU words were subtracted from the 1927 total (row 6), a total of 7,824 words remain (row 7). The two totals and their difference seem plausible, since the 1936 total becomes larger, and was from a larger source.

Elsewhere in the 1936 article, however, the authors report that 2,481 words were not grade placed, 1,759 IKU words were removed, and 7,761 words were grade placed. ⁴² These figures total 12,001 words, not 12,622. Adding more to the confusion, the figure of 7,761 grade-placed words is less than the 1927 or 1936 totals indicated in Table 5. This writer could not, from the literature, account for the difference of 621 words between the two total word amounts reported.

ERIC

Full Text Provided by ERIC

⁴² Buckingham and Dolch, pp. 11-12.

Combined Word List

The Buckingham-Dolch Combined Word List

As stated in 1928, the purposes of the project were: (1) to enlarge the scope of vocabulary research by combining the largest word studies, and (2) to provide a basis for forming grade-level vocabularies. As In 1936, A Combined Word List was recommended as a guide for adapting teaching materials. In 1937, Dolch presented an article evaluating the list and also identifying weaknesses in vocabulary research. He listed the purposes of the Combined Word List as (1) to provide a single source of several vocabulary lists, and (2) to provide a list of the more common 19,000 words with their grade-placement or frequency for educational use or for comparison of research.

In 1928, Dolch listed fifteen word studies, including the Free-Association Study, to be included in the Combined Word List. 46 In

⁴³ Dolch, "Combined Word . . . ," p. 11.

⁴⁴ Buckingham and Dolch, p. 3.

Elementary English Review, 14:22-24, January, 1937, p. 22.

⁴⁶ Dolch, "Combined Word...," pp. 12-14.

1936, only eleven word studies were listed. Some were not from the original list published in 1928. The added studies appeared after 1928 and the deleted studies were considered less important. ⁴⁷ For a comparison of the two lists of studies to be used and were used, Table 6 (page 53) has been prepared.

Buckingham and Dolch justified the use of adult vocabulary research by stating that adult frequencies might help in deciding grade placement and that such research would certainly fill gaps within the children's lists. 48

Evaluation of all vocabulary research was presented in the Combined Word List publication and in an article by Dolch the following year. Dolch wrote, "children's word knowledge is certain to change with changing life conditions and consequently no tabulation can be considered final." The children's world is expanding geographically, by travel; experientially, by literature; and technically, by media and their parents. Children are closer to the world of adult ideas, mostly due to the moving picture and the radio. In addition, the parents' attitude regarding children's curiosity has changed toward receptiveness. An expanding world means an



⁴⁷ Buckingham and Dolch, pp. 13, 15.

⁴⁸ Buckingham and Dolch, p. 12.

TABLE 6

IISTS INCLUDED IN COMBINED WORD STUDY AND COMBINED LIST LITERATURE

LIST TITLE	1928	193
Childien's Usage:		
H. J. Smith's Children's Spelling Vocabulary	x	
Pearson-Suzz: lo Composition Vocabulary	x	
Hom's Children's Vocabulary	X	X
Free-Association Study	X	X
W. F. Jones' Children's Theme Vocabulary	x	X
Tidyman's Children's Theme Vocabulary	x	X
Studley-Ware Children's Theme Vocabulary	x	x
Bauer Children's Theme Vocabulary	x	X
International Kindergarten Union		x
Payne-Garrison		X
Adult Usage:		
Cook-O ¹ Shea	x	
Andersen	X	
Horn Writing Vocabulary	x	x
Reading Matter		
Kircher	x	
Dewey	X	
Gates	X	x
Thomdike	x	X
TOTAL DIFFERENT WORDS	12, 605	19,000

ERIC ...

expanding vocabulary. 49 In 1937, he wrote that the Combined List project had revealed several gaps in vocabulary research. The treatment of compound words had been inconsistent. Regional terms were missing and so were many common, everyday terms such as those related to food and medicine. There was a need for sectional vocabularies. The Combined Word List was a general list for the greater bulk of children in the nation. It was not thorough, in terms of different words and grade placement of words, for different locales.

The fact that lists disagreed over grade-placement meant the need for further study. Indications were that grade-placement of a word may vary with meaning, which indicated another area of needed study. 50

Vocabulary Research Included in A Combined Word List

The following is a brief description of each of the vocabulary lists included in or related to the 1936 title. Original sources were used whenever they could be obtained by this writer. Otherwise, descriptions by Dolch or from other literature were used; such



⁴⁹Buckingham and Dolch, pp. 16-17.

Buckingham and Dolch, p. 17 and Dolch, "Side Lights on . . ," pp. 23-24.

sources are identified in the description. Each list is presented in alphabetical order, from Figure 1 and Table 1 (pages 9 and 10).

Dolch 1,000 (a). This list was an attempt to correct weaknesses of Thorndike's first 1,000. ⁵¹ Dale had combined Thorndike's first 1,000 with the IKU List and found 755 common words. ⁵² Dolch found this list inadequate and decided to enlarge it to 1,000. He divided the Dale List into the same topics as in the Interview Vocabulary (c, f). Omissions or "holes" in the Dale List were filled from the Interview Vocabulary until 245 words had been added. Dolch claimed the resulting list as very satisfactory. The list was presented in two formats: first, in topical order with the source list indicated; and second, in alphabetical order. ⁵³

Dale 769 (b). The 2,596 words from the International Kindergarten Union List⁵⁴ and the most frequent (first) thousand in the Teacher's Word Book⁵⁵ were combined. A list was then formed of



Thorndike, The Teacher's Word... and A Teacher's Word Book of the 20,000....

Edgar Dale, "Comparison of Two Word Lists," Educational Research Bulletin, 10:484-489, December, 1931.

⁵³ Edward W. Dolch, Problems in Reading (Chicago: The Garrard Press, 1948), pp. 108-129.

⁵⁴ Horn, A Study of the Vocabulary of . . .

⁵⁵ Therndike, The Teacher's Word

the 769 words common to the source lists. The list was presented in alphabetical order, with indications of whether the word occurred in Thorndike's first or second 500. In addition, a list was presented of words not in the IKU List, but in Thorndike's First Thousand. 56

Interview Vocabulary (c, f). The meanings of the 19,000 words of the Combined Word List were listed with the words. All common meanings were included so that over 20,000 meanings were obtained. These meanings were then sorted into subject groups by two criteria: (1) as closely related a group of meanings as possible, and (2) groups not over 100 words. The results were 305 word groups among three levels of subordination. 57

Those words that first-graders might know were chosen from the topics related to child life to form the test list. An interviewer then tested beginning first-graders for knowing and meanings of the words. The test items were objects, pictures, and standard questions. Testing of each word stopped when chances were "...42 to one, that 75 out of 100 knew the word."



⁵⁶ Dale, "Comparison of . . . ," pp. 484-489.

⁵⁷ Edward W. Dolch, "Vocabulary Study by Fields of Interest," Elementary English, 32:283-288, 1955, p. 284.

⁵⁸ Dolch, Problems in . . . , pp. 109-110

IKU (d). Madeline Horn directed this study by the International Kindergarten Union. The words were from three sources: (1) words used by children when stimulated by questions with pictures, (2) words used by children while in their kindergarten classes, and (3) words used by children in their homes. The running and individual word totals were:

	Kindergarten	Picture	Home
Running Words	489,865	306,839	97,878
Individual Words	7,186	5, 150	4,789

Originally it was planned to have a list of 2,500 words; however, 96 more words had the same frequency as the twenty-fifth hundred word, therefore the list is of 2,596 words. The Kindergarten list is the key list, with the other two lists presented in parallel. The words are listed in alphabetical order with their kindergarten frequency; their position in the compiled list, by hundreds; their position in the picture list; and their position in the home list indicated. Words were included if they were:

- 1. Listed in Webster's International Dictionary of 1925.
- 2. Proper nouns in a biographical dictionary, or, a Pronouncing Gazateer.
 - 3. Two or more words with single concept: "down town".
 - 4. Children's words: "choo"

- 5. Proper nouns of children's interest: "Humpty Dumpty"
- 6. Slang: "gee"
- 7. Inflections of nouns, verbs, pronouns, adjectives
- 8. Contractions
- 9. Common, commercial words: "jello"
- 10. Colloquialisms: "mhm"⁵⁹

Thorndike (e). In the 1928 publication, Dolch listed the 10,000 word Thorndike List. In A Combined Word List, Thorndike's 1931 publication of a 20,000 word list was used. The following description is from Thorndike's 1921 publication, as the additional 10,000 words are from the same study and treated by the same procedures. The sources and the "running-words" for the list were:

	"Running-Words"
Children's literature	About 625,000
Bible and English Classics	About 3,000,000
Elementary texts	About 300,000
Technical/craft literature	About 50,000
Newspapers	About 90,000
Correspondence	About 500,000
Totals: 41 different sources	About 4, 565, 000

The words were recorded with their range and frequency. Range indicated how many of the 41 sources used the word, and frequency indicated how many times the word was used by all sources combined.

⁵⁹M. Horn, A Study of the Vocabulary of . . . , pp. 3-5, 8.

The range and frequency were combined to form a "credit-number" in some manner not reported. The credit-number indicated the importance of the word. A credit-number of 49 or more meant the word was in the first thousand, 29 to 48 meant the second thousand, 19 to 28 meant the third thousand, and so on. There was further identification with the first five thousand and first hundred. 60

Horn Basic Adult (i). In 1922 Horn received funds to combine nire previously conducted correspondence studies and to extend the research. The basic design was to replicate all of the studies, except one that lacked sufficient description of source and method, and then combine the data.

Proper names, words of less than four letters, and the 41 most frequent words of the combined earlier studies were eliminated to reduce tabulation labor. The different word forms were tabulated separately. The selected original eight studies and the replicative studies provided approximately 5, 137, 000 words from which 36, 373 different word forms were found. Following a credit system based upon frequency and range of sources and establishing maximum credit weights of each source, the words with a credit of 15 or more were selected. 61



⁶⁰ Thorndike, The Teacher's Word . . . , pp. iii-vi.

⁶¹ Horn, A Basic Writing . . . , pp. 21-23, 48-51.

Horn 6 yr. (j). The words of three studies were combined: a study by Ernest Horn of spoken vocabularies of eighty children, one to six years; a study directed by Mrs. Horn in kindergartens of Iowa and Minneapolis that had about 200,000 running words; and a study by P. C. Packer who tabulated about 70,000 running words, spoken by Detroit first-graders. The combination criteria were: (1) words with a frequency of 15 or more and on three lists were included, and (2) words with a frequency of 25 or more and on two lists were included.

Dolch stated that the published list had 1,082 words from 5,000 different words obtained and that Horn provided the original data so that additional words could be added for A Combined Word List. 63

Jones (k). Approximately 150 students, grades two through eight, from Illinois, Maryland, Iowa, and South Dakota wrote themes, daily, on any topic of interest in which the student had not recently read. A little over 75,000 themes were written, averaging slightly less than 190 words each, for a total of approximately 15,000,000

Ernest Horn, "The Commonest Words in the Spoken Vocabulary of Children up to and Including Six Years of Age," Twenty-Fourth Yearbook of the National Society for the Study of Education (Bloomington, Illinois: Public School Publishing Company, 1925), chapter VII.

⁶³ Dolch, "Combined Word...," p. 12.

"running-words". The total number of grade-placed, different words was 4,532. Grade placement was based upon a frequency of three within the grade.

Tidyman (1). This writer was unable to obtain the original literature. 65 Dolch wrote: "The words taken from 'spontaneous' compositions in Grades III to IX inclusive were used as the source of this list." 66 S. C. Garrison described Tidyman's study as follows:

A total of 538,500 running words were obtained from 50,000 themes.

One and two letter words were omitted. A "large number of common words, and words of very low frequency" resulted. The final list contained 3,850 words.

Payne-Garrison (m). This was one of the lists not mentioned by Dolch in 1928, but included in A Combined Word List. A copy of the Payne-Garrison Speller, 68 could not be obtained by this writer.



Wallace F. Jones, Concrete Investigation of the Material of English Spelling (Vermillion, South Dakota: State University of South Dakota), 1915, pp. 4-6.

⁶⁵W. F. Tidyman, Survey of the Writing Vocabularies of Public School Children in Connecticut (Washington, D.C.: United States Bureau of Education, 1921), Leaflet No. 15.

⁶⁶ Dolch, "Combined Word . . . ," p. 12.

⁶⁷ S. C. Garrison, "Teaching of Spelling," Peabody Journal of Educational Research, 8:94-99, September, 1930, p. 94.

⁶⁸ Bruce R. Payne and Garrison, Payne-Garrison Speller (Chicago: Rand McNally and Co., 1931).

Dolch described it as a list of 4,661 words, graded by frequency and difficulty, that were the most frequent fourth of 13,496 different words from 2,175,000 running-werds. Children's themes and letters, high frequency words from "other childhood vocabularies", and Horn's adult-writing vocabulary were the sources.

In 1930, Garrison discussed a list called "The Peabedy Word List". This list was 6,852 words of high frequency from 13,496 different words found in 2,174,820 "running-words" of children's letters and themes. The material was from grades III through IX. It appears that this list, combined with the other vocabulary research, produced the spelling list. 70

Bauer (n). This writer was unable to obtain the source literature. 71 Dolch described this list as coming from students' themes on 90 subjects designed to cover life and activities. Words were graded by frequency, not usage. 72

Studley-Ware (o). This list came from the writing of children and adults. Studley and Ware randomly selected 920 compositions



⁶⁹ Buckingham and Dolch, p. 13.

⁷⁰ Garrison, "Teaching of . . . ," pp. 94-95.

Nicholas Bauer, The New Orleans Public School Spelling List (New Orleans: F. F. Hanseal and Brothers, 1916).

⁷² Dolch, "Combined Word . . . ," p. 13.

from city and rural schools in the Chico, California, school district, out of grades three through eight. From almost 200,000 "runningwords", 3,459 different words and forms were found that were of common usage. The results were combined with the Ayres and McFadden-Burk Lists. The final result after combining the three lists was a list of 3,470 words. The words were grade-placed according to the following: "... words shall be commonly written, but not so long before as to become stale and forgotten" The list is presented in 170 numbered lessons for each grade level, and is accompanied by a list of 462 additional words, less commonly written, for, "... schools with excess energy and time"

Gates Primary Reading (p). The writer was unable to obtain the original literature. ⁷⁴ A revised edition was obtained. The revision is only by addition of words from an additional source. The original sources were included and selection and tabulation methods were identical to the 1926 study. The sources of the 1926 study were:

- 1. The most frequent 2,500 words from the Thorndike list,
- 2. Words from the most frequent 1,000 words of the Moor Study not found in the first 2,500 of the Thorndike list,



⁷³Clarence K. Studley and Allison Ware, Common Essentials in Spelling (Chico, California: Chico State Normal School, 1914), Bulletin No. 7, pp. 7-9.

⁷⁴ Arthur I. Gates, A Reading Vocabulary for the Primary Grades (New York: Teachers College, Columbia College, 1926).

- 3. Any additional words from Packer's most frequent 1,000 words,
- 4. Any additional words from the most frequent 1,000 words of Horn's Speaking Vocabulary.

A panel of experts were asked to judge each word of the composite list by child interest and child utility. The words were ranked by merit which was determined by frequency in children's literature, children's speech, and expert judgement. 75

Coleman referred to the list as 1,500 different words of 1,263 different forms from 4,300 different words of high usage frequency. 76

Ayres (q). This writer was unable to obtain the original literature of this study. 77 Studley and Ware reported that the list "... incorporates 542 words found... to be most fundamentally common in American written usage." Horn reported that Ayres tabulated 23,629 running-words from the first position of each line of 2,000 business and personal letters. The final list was of those words



⁷⁵ Arthur I. Gates, A Reading Vocabulary for the Primary Grades (New York: Teachers College, Columbia University, 1935), 2d ed., pp. 1-4.

⁷⁶ Coleman, pp. 62-65.

The Spelling Vocabularies of Personal and Business Letters (New York: Russel Sage Foundation, 1913).

⁷⁸ Studley and Ware, p. 6.

with a frequency of six or more from the 2,001 different words. 79

The list was presented as ar appendix entry by Anne Nicholson. 80

Nicholson (r). This list was a composite of several other lists and was presented as a first draft of a speller for modification and approval by California teachers. Words found common to several other lists were added to the Jones List (k). Five of the additional word lists were presented in the appendix of the publication. The five lists were:

- 1. Ayres' Spelling Vocabulary of Personal and Business Letters
- 2. McFadden and Burk Vocabulary of Friends' Letters
- 3. Social Letters Vocabulary of San Jose Parents' Association
- 4. Vocabulary of Business Letters of the California Barrel
 Company
- 5. Vocabulary of Business Letters of the Emporium, San Francisco, and Hale's Department Store, San Jose. 81

Cook-O'Shea (s). This writer was unable to obtain the original literature. 82 Horn described this study as 200,000 running words

⁷⁹ Horn, A Basic Writing . . . , p. 9.

Anne Nicholson, A Speller for the Use of the Teachers of California (Sacramento: California State Printing Office, 1914), pp. 191-194.

⁸¹ Nicholson, pp. 1-5, 191-217.

⁸²William A. Cook, and Michael V. O'Shea, The Child and His Spelling (Indianapolis: Bobbs-Merrill Co., 1914).

from personal correspondence of eight women and five men. The authors stated that the material was insufficient to approach the complete vocabulary of an individual. Horn went further to say that the low number of running words per person and the number of variables contrasting the persons forbid comparisons. The tabulation was by dictionary basis which detracts from the study's value regarding usage. Despite these weaknesses, the list of 5,200 different words did contribute in regards to knowledge of the probable size and extent of the personal correspondence vocabulary of one person.

Coleman reported that only 186 words were used by all thirteen writers and only 763 were used by seven or more. 84

Andersen (t). This writer was unable to obtain the original literature of this study. 85 Horn described the list as a significant contribution in that occupation sources were identified with the tabulated words. This study provided some of the first stratified or cross-section vocabulary data. 86 The following table describes the data:

⁸³ Horn, A Basic Writing . . . , pp. 10-12.

⁸⁴ Coleman, pp. 17-18.

William N. Andersen, <u>Determination of a Spelling Vocabulary</u>
Based Upon Written Correspondence (Iowa City, Iowa: State University of Iowa, 1921).

⁸⁶ Horn, A Basic Writing . . . , pp. 12-14.

DISTRIBUTION OF	F WORDS FROM	1 OCCUPATIONAL
SOURCES OF	THE ANDERSE	N WORD LIST

Occupational Source	No. Letters	Running Words	Different Words	f-l Words	Exclusive f-1 Words	Exclusive f-2 Words
Doctors	124	14,014	2,222	1,130	210	37
Bankers	164	13,614	1,915	922	111	10
Farmers	160	14,513	1,754	835	97	9
Auto Dealer	138	14,290	1,881	775	132	23

Houser (u). Houser felt that investigations of adult writing needs should be oriented to economic and social classes and that the lists be expanded by classes, not just number. Houser collected 750 farmer's letters written to the University of California, Department of Agriculture, to test his hypothesis. The letters averaged 87 words, providing a running word source of approximately 65,500 words. The first and last words of each body line were tabulated, creating a sampling of 18,701 words. Suffixes and inferentials were tabulated with the roots. The resulting list included 1,869 different words. Houser concluded that as the frequency of usage reduced, more variance from other lists occurred and the vocabulary became more technical.



⁸⁷ J. David Houser, "An Investigation of the Writing Vocabularies of Representatives of an Economic Class," Elementary School Journal, 17:708-718, June, 1917.

Clarke (v). Clarke questioned whether the lists available at the time were adequate in terms of adult needs. He selected the Ayres' List and the Every-Day Speller as representative. A sample of 28,292 running words with 3,360 different words from 200 letters written to the editors of a Chicago daily newspaper was formed. The results felt by Clarke to be significant were:

- 1. 117 words from the Ayres List that should have occurred 3 times or more did not appear in the letters
- 2. 237 words that occurred 4 or more times in the letters were not in the Ayres List.
- 3. 108 words that occurred 4 or more times in the letters were not in the Speller. Clarke concluded that (1) the assumption that frequency-twelve words, from 100,000 running words would reoccur was not safe, (2) the assumption that frequency-twelve words from a few lists would include all words apt to occur in other similar lists was not safe, (3) current lists (1921) were inadequate to adult needs, (4) there had been a lack of consideration for habitat and social differences, and (5) vocabulary research needed more supplementing. 88



⁸⁸William F. Clarke, "Writing Vocabularies," Elementary School Journal, 21:349-351, January, 1921.

Horn Bankers' (w). This study was similar to Houser's (u) by design, as it was of letters from bankers to bankers. An added dimension was regional sampling and identification. Fifteen states of nine different regions produced 1,125 letters. Different word forms were tabulated as different words. Horn found 2,623 different words, 189 of which were not on the Ayres List. Sectional differences of words were minimal with no difference of frequencies in most cases.

Horn Personal (x). This study was never published; it is described in A Basic Writing Vocabulary. The purpose of the study was to secure data from letters of high personal nature. College students were asked to list and tabulate the words of letters they would not have made available to another person to tabulate.

Approximately 100,000 running words provided 5,239 different words. In comparison to other studies, significantly more personal relationship, colloquial, slang, and college-life words were obtained.

McFadden-Burk (y). This list was apparently not published other than by its inclusion in the appendix by Nicholson. 91 Hern described

English Journal, 12:383-397, June, 1923.

⁹⁰ Horn, A Basic Writing . . . , pp. 16-17.

⁹¹ Nicholson, pp. 195-199.

the list as 752 different words from 19,288 running words. He stated that the manner of computing and tabulating was not described and that it should have been, especially with such a low proportion of different words.

Studley and Ware described the study as providing 6,916 different words from 91 letters of common adult correspondence. The final list was of those 840 words with a frequency of two or more. 93

Thorndike 2,500 (z). Thorndike listed the most widely used and frequent 2,500 words separately in his 10,000 word list. The words were in alphabetical order, within groups of 500, from most to least used. 94

Packer (aa). This list was a frequency count of First Readers in the following series: Aldine, Beacon, Brooks, Carrol and Brooks, Cyr, Heath, New Education, New National, Riverside, and Wheeler. The frequency was within and among the texts. A total of 3,541 different words and forms were identified with frequencies from 5,246 (the) to 1. The words were arranged alphabetically, within frequency

⁹² Hern, A Basic Writing . . . , pp. 9-10.

⁹³ Studley and Ware, p. 6.

⁹⁴ Thorndike, The Teacher's Word . . .

groups, with their own frequency and number of texts in which they were found. A summary table was included showing numbers of words in each frequency group. No date was reported, however Packer died in 1918, and the study was completed by others in the Graduate College, University of Iowa. 95

Horn 6 yr. Speaking (bb). No source literature was identified.

This study was mentioned and very briefly described by Ernest Horn, in his 1925 presentation. Verbatim data was recorded of eighty children, one to six years old. 96

M. Horn Kindergarten Speaking (cc). No source literature was identified. E. Horn mentioned this study as part of his speaking vocabulary list. Mrs. Madeline Horn used kindergartens in Iowa and Minneapolis and obtained about 200,000 running-words. 97

Packer First-Grade Speaking (dd). No source literature was identified. Horn cited this study as being part of his speaking vocabulary list. Packer tabulated about 70,000 words speken by Detroit first-graders. 98

⁹⁵ J. L. Packer, and May M. Beck, "The Vocabulary of Ten First Readers," Twentieth Yearbook of the National Society for the Study of Education, Part II (Bloomington, Illinois: Public School Publishing Company, 1921), p. 127.

⁹⁶Horn, "The Commonest Words In . . . ," p. 185.

⁹⁷ Horn, "The Commonest Words In . . . ," p. 185.

⁹⁸ Horn, "The Commonest Words In . . . ," p. 185.

Same the state of the same of the same of the

Dolch 220 Basic Sight (ee). Three lists were combined to form the list of 220 words that were considered basic necessity for reading readiness. From the International Kindergarten Union List, 510 words with a frequency of 100 were selected; from Gates! List, the first 500 words were used, and the 453 words from Wheeler and Howelf. The three lists were compiled on a dictionary basis (regular inflectional forms combined with root) and merged. The final list consisted of those words common to the three lists and was presented in three formats grouped by parts of speech; in alphabetical order; and in difficulty halves. The 220 words also appear in the "Dolch 1,000."

Wheeler-Howell (ff). The purpose of this study was to check
Gates' primary reading vocabulary study against ten Primers and ten
First Readers, more "recently" published. The copyrights were 1922
through 1929. Variant word forms were counted separately except
for plurals in 's', later the variants were combined for the comparison
to the Gates List. Proper names were excluded. The authors obtained
a combined vocabulary of 2,061 words from the First Readers and a
combined vocabulary of 2,219 different words from all twenty texts.

The words were treated mathematically to obtain ranks for comparison to the Gates' List. The formula was: f x bf ; 20; the raw



⁹⁹ Dolch, Problems in . . . , pp. 97-107.

frequency multiplied by the number of books using the word, divided by twenty. In the first one-hundred words, 68 were common with Gates; 74 percent were common in the entire list with Gates' first 500. The authors found large discrepancies in the ranking of the words. The list was presented in alphabetical order, with the obtained rank and Gates' rank indicated for each word.

Dale 3,000 (gg). This list was constructed by testing fourth graders' knowledge in reading of almost 10,000 words common to the Thorndike and Combined Word List. The final list was of approximately 3,000 words that were known by at least 80 percent of the fourth graders. This list was the basis of the Dale-Chall readability formula.

Summary

The main diagram in Figure 1 (page 9) that shows origins and related positions of studies has forty-one entries. These entries consist of only 32 different studies, eight of which were never published. The difference in totals is the result of repeated use of several studies.

¹⁰⁰ Helen E. Wheeler and Emma Howell, "A First-Grade Vocabulary Study," Elementary School Journal, 31:52-60, September, 1930, pp. 52-59.

¹⁰¹ Edgar Dale and Jeanne S. Chall, "A Formula for Predicting Readability," Educational Research Bulletin, 27:11-20, 28, January, 1948, pp. 13-20.

Fourteen of the twenty-four published studies are solely of original data. Five of the published studies include both original and previously obtained data. The remaining 5 studies are composites of previous research. Seven unpublished studies are of original data. The dates of the studies with original data are prior to 1930.

Nine of the 24 different published studies are of children's vocabularies, 8 are of adult vocabularies, and 7 are of both, these include speaking, writing and reading vocabularies.

To conclude, only 12 of the 41 entries, or, 10 of the 32 different studies, or, 7 of the 24 published studies are of original data that include only children's vocabularies; and, all of these are dated prior to 1930.

Conclusion

There has been a rapid and large increase in the number of vocabulary studies since 1930; however, most have been of very limited scope. The more well-known studies are from data originating in the 1920's and 1930's. Most problems of vocabulary research seem to have remained over the years. Primarily, they are size of source data, cost, time necessary for tabulation, basic assumptions, utilization, and datedness.



The literature reporting the original Free-Association Study has significant omissions and contradictions regarding results and procedures.

A tracing of the origins of vocabulary research indicates a preponderance of data from adult usage and children's reading materials. Those studies of children's usage that do exist are quite dated and few in number.



CHAPTER III

EXPERIMENTAL PROCEDURES

Population and Sample Source

The population area for this study was the Willamette Valley

Plain, in the State of Oregon, as illustrated by S. N. Dicken. Large,

consolidated school districts having a rural to non-rural enrollment

ratio closest to one-to-one were selected for Sample Sites. An

exception was made to obtain suburban Sample Sites in the Greater

Portland area. The Sample Site districts were:

- 1. Beaverton School District
- 2. Oregon City School District
- 3. West Linn School District
- 4. Corvallis School District
- 5. Junction City School District
- 6. Bethel School District

The Initial Sample consisted of all student, in attendance in regular classrooms on the day of the Response Period. The Final

¹Samuel N. Dicken, Oregon Geography (Eugene, Oregon: University of Oregon Cooperative Bookstore, 1950), pp. 10, 12.

Sample was of those students who participated less those who met the elimination criteria listed on page 80.

The Initial Sample was to have been approximately 2,400 students per grade, to provide a Final Sample of approximately 2,200 students per grade. The Final Sample was less than desired due to the methods of estimating Initial Sample sizes, the elimination criteria, and errors of administration in a few classrooms.

Two Occupance Types were identified within the Sample: urban and rural. The identification of rural subjects was determined by each pupil's response(s) to one or both of the following questions:

Do you live in town? Do you ride the bus? No such identification was made in a building if the questions were considered by the building staff to be ineffective in discriminating occupance types. The result is that an undetermined number of rural students may be included in the urban category.

Table 7 presents the Final Sample size and its distribution.

The Sample total was 8,506 students. The male students numbered 4,416, or 51.92% of the sample, and the female students numbered 4,090, or 48.08% of the sample. The urban occupance had 5,832 (68.56%) of the students and the rural occupance had 2,674 (31.44%) of the students. In a further breakdown of the distribution, the four category cells accounted for the distribution as follows: Urban-Male,

TABLE 7
IDENTIFICATION AND DISTRIBUTION OF SAMPLE SUBJECTS

		URBAN	URBAN-MAIE	URBAN	URBAN-FEMALE	RURA	CELL 3 RURAL-MALE	CELL 4 RURAL-FE	CELL 4 RURAL-FEMALE	u
		z	×	Z	×	z	×	Z	×	-
	ı	S8 9	33, 93	586	33.76	307	17.68	254	14.63	1736
	Ш	3 85	35. 53	563	33.67	288	17. 22	227	38.55	167
	2	555	33.45	229	34.36	381	16.9	253	15. 25	5,650
	>	632	36.22	579	33.18	288	16.50	246	14. 10	1745
	7	200	35.83	557	32.88	275	16. 23	255	15.05	7
CELL										
TOTALS		2877	35.00	2855	33.56	1439	16.92	1235	5	703
OCCUPANCE	Urben			5832	68.56					950
TOTALS	Rural							7246	21 77	900
SEX	Male	6				4416	61.93	2/02	21:45	9369
TOTALS	Female			•			31.36	7007	70	3
SAMPLE								202	95.02	8500
TOTAL										Ş
										8200

2,977 (35.0%); Urban-Female, 2,855 (33.56%); Rural-Male, 1,439 (16.92%); and, Rural-Female, 1,235 (14.52%) students.

The upper portion of the table is read as follows. In the second grade, there were 589 Urban-Malas, which accounted for 33.93% of the 1,736 second grade total shown in column '\textstyle{\mathbb{Z}}'. There were 586 Urban-Females, which were 33.76% of the 1,736 second graders.

The 307 Rural-Male students and the 254 Rural-Female students were 17.68% and 14.63% of the second grade.

Administration

Date. The sampling was conducted at the end of the 1965-1966 school year.

Sampling. All students in regular classrooms, grades two through six, of each Site School participated. No selection or elimination occurred during the administration.

Control. A prepared set of directions, with monologue, was used for control of stimulus association (Appendix A). The words used in the monologue were included in the International Kindergarten Union List. These words were eliminated in the tabulation process.

Administration Activities. Administration of the Response

Period was by the classroom teacher, following the printed

instructions and monologue. The students were asked to write down



all the words that came to mind in a fifteen minute period. The students were instructed to put 'M' for male or 'F' for female in the upper-right corner of the Response Sheet; 'Yes' or 'No' for town residence; and, or 'B' if they were a school bus rider. The Response Sheets were collected by the teacher and given to the experimentor.

Data Preparation

Figure 4 (page 81) has been prepared to help the reader visualize the sequence of the procedures. The handbook "Procedure Specifications" has the specific details of procedures, formats, operations, and nomenclature, and is presented in Appendix B.

- 1. The Response Sheets in each grade were sorted into the four Category Cells: Urban-Male, Urban-Female, Rural-Male, and Rural-Female.
 - 2. The Response Sheets were edited for the following:

ERIC

- a. Response Sheets with serious reading difficulty due to penmanship were eliminated.
- b. Response Sheets with no sex identification or no grade level identification were eliminated.

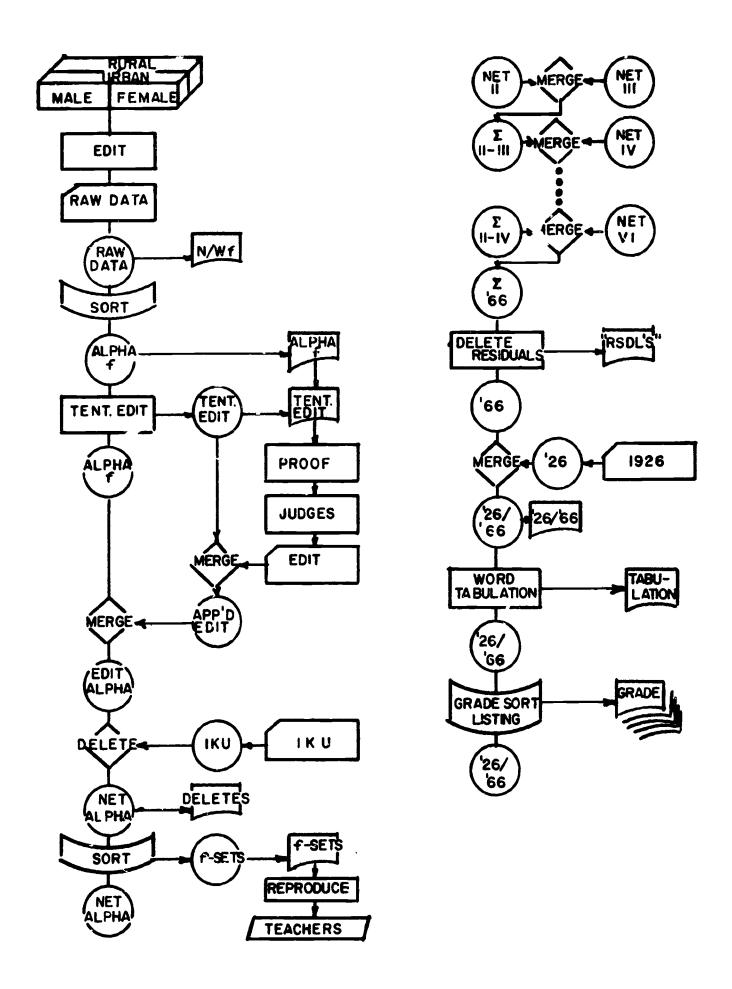


FIGURE 4

OPERATIONAL FLOW CHART OF DATA
PREPARATION AND PROCESSING

ERIC

Data Processing

The computer processing was on an IBM 360, model 30, using a Disc Operating System. The program for putting the raw data on the tapes from data punch-cards was in Assembly Language. All other programs were in Common Business Oriented Language (COBOL).

Each grade was treated separately through most of the processing. Procedures 1 through 14 are in terms of one grade and were repeated for each grade. The remaining procedures included the grades indicated.

- 1. Data cards were punched from the Response Sheets remaining after the Data Preparation phase. The key-punchers were instructed to: (a) exclude abbreviations and contractions, (b) correct spelling only if they were certain of the word intended, and (c) enter the word as it appeared when in doubt of the spelling. This key-punching involved approximately 510 man hours.
- 2. The data cards were read onto magnetic tape by computer.

 This tape was identified "Raw Data".
- 3. The first computer output was the "N/Wf" print-out. This was the count of students, running words written by each student, and total number of running words written.

- 4. The words were alphabetically sorted from the "Raw Data" tape and recorded with their frequencies on the "Alpha-f" tape. A print-out was made of the tape.
- 5. The "Alpha-f" tape was read by a "Tentative Edit" program.

 This program read each entry and proposed changes according to the word endings:

Ending	Proposal
'g'	drop.'s'
'es'	drop 'es'
'ies'	change to 'y'
'est'	drop 'est'
'ing'	drop 'ing'

The 'er' ending was left as most of its occurrences were not in the superlative form. A print-out and a tape were made and identified as "Tentative Edit".

6. The "Alpha-f" print-out was proofed in regards to the tabulation criteria and for spelling errors. The "Tentative Edit" print-out was proofed for acceptance, modification, or rejection of the proposed edits. Misspellings were referred to three judges when the spelling could not be corrected with absolute certainty. The word intended was be determined by consensus of the judges.

- 7. Four types of "Edit Cards" were made from the proofed print-outs:
 - a. Correct the spelling of an entry in the "Alpha-f" tape,
 - b. Eliminate an entry in the "Alpha-f" tape,
 - c. Correct a proposed edit entry in the "Tentative Edit" tape.
 - d. Eliminate a proposed edit entry in the "Tentative Edit" tape.

This key-punching required approximately fifty man hours.

- 8. The "Edit Cards" were merged with the "Tentative Edit" tape to form the "Approved Edit" tape.
- 9. The "Approved Edit" tape was merged with the "Alpha-f" tape to form the "Edited Alpha-f" tape. This contained the words in the proper forms for the study.
- 10. The International Kindergarten Union words were keypunched and put on magnetic tape in a similar manner as the raw data.
 This required approximately six man hours, including corrections.

The International Kindergarten Union words were eliminated from the "Alpha-f" tape by merging the "IKU" and "Edited Alpha-f" tapes.

The products of this merge were the "Net Alpha" tape and the "IKU-f" print-out which listed the words removed and their frequencies.

- 11. The words on the "Net-Alpha" tape were sorted into sets of identical frequency. Alphabetical order was retained within each set.

 A print-out of the Frequency Sets was produced and identified "f-Sets".
- as separate word lists from the "f-Set" print-out. These lists were mailed to over thirty teachers in Washington and Oregon. These teachers were in regular classrooms of the same grade level from which the sample words were taken, and had been identified by their administrators as highly successful in the teaching of reading and spelling. The teachers were asked to read the several word lists they had received and select one that they felt best illustrated, without any modification, the vocabulary achievement of their particular grade.

 Samples of the materials used in this phase are presented in Appendix C.
- 13. Twenty teacher responses, evenly divided between Western Washington and Western Oregon, were drawn from the returns. The Frequency Set selections made by the twenty teachers were tabulated for that grade.
- 14. The tabulations of the five grades were compiled. The Frequency Set most often selected by the one hundred teachers was



the frequency of three. This frequency became the Criterion Frequency for grade placement.

- in a process that: (1) carried words with a frequency less than

 Criterion upward in grade level and added frequencies when the same word occurred, (2) removed any word already grade placed in a lower grade, and, (3) put all the words in alphabetical order with their grade level. The remaining fl and f2 words were removed and listed on a print-out identified "Residual". The final product tape was identified "1966".
- 16. The 1926 words, grades second through sixth, were put on data cards and then on magnetic tape with their grade levels in the same way as the original raw data. The key-punching required six hours. The tape was identified as "26 Master".

The "'66 Master" and "'26 Master" tapes were merged by a program that listed the words in alphabetical order and also listed the grade placement of the word. The 1926 and 1966 grade placements were in separate columns. A zero was placed in the year's column if the word was not grade placed in that year. The product tape and print-out were identified as "'26/'66 List".

17. The "'26/'66 List" tape was run through a program that tabulated and listed the number of common words, number of 1966



and 1926 unique words, number of words that moved downward, upward, and remained in grade level. The print-out was identified "Word Tabulation".

- 18. The final program was the listing of the 1966 separate grade level lists from the "'26/'66 List" tape.
- describing the Sample, the distribution of student performances, and the total number of running words. The numbers of words written by each student were recorded on a grouped-data interval scale. The mean, median, mode, and standard deviation were computed from this. The print-outs "Alpha-f" were used to count the total number of different words written. The "Word Tabulation" print-out was used to determine number of grade-placed words. The "Residual" and "IKU-f" print-outs were used to determine the number of words not grade placed. The "Word Tabulation" print-out was used to determine the number of words that moved downward and upward in grade placement.

Data Analysis

The number of grade placed words and the number of unique words were tabulated for both the 1966 and 1926 lists. The numbers

1966 unique words, 1926 unique words, and words common to both lists were added to determine the number of grade placed words in the merged list.

The number of 1966 unique words was converted to its percent of the 1966 list and its percent of the merged list. The statistical significances of these percents were tested by computing the Critical Ratios between each percent and its standard error. The interpretation was at the (.01) level. These procedures were repeated with the 1926 list.

The numbers of 1966 unique words and 1926 unique words were added and the sum was converted to its percent of the merged list.

The significance of this percent was tested by the Critical Ratio between the percent and its standard error. The interpretation was at the (.01) level.

The numbers of words that remained the same, moved downward, and moved upward in grade placement from 1926 to 1966 were tabulated. The sum of these counts was the number of common words. The numbers of words that shifted in each direction and their total were converted to percents of the common word total.

The statistical significance of these three percents were tested by their Critical Ratios and interpreted at the (.01) level.

The percents of the two grade-placement shifts were compared for statistically significant difference and interpreted at the (.01) level.

The formulas used are presented in Appendix D.

Data Presentation

The "Grade-level Lists" and "'26/'66 List" print-outs were cut and mounted for reduction-photo processing. The "Grade-level Lists" are presented in Appendix E. The "'26/'66 List" was identified as "Master List" and is presented in Appendix F.

The grade level lists are also available in a publication of the Oregon School Study Council, School of Education, University of Oregon.

CHAPTER IV

PRESENTATION AND DISCUSSION

OF THE FINDINGS

The descriptive data of the study results are presented in several tables within each discussion topic. The discussions include comparisons with the original Free-Association Word Study by Dolch. The formulas used in computing the statistical analyses are presented in Appendix D.

Words Obtained, Removed, and Grade Placed

The first column of numbers in Table 8 (page 91) includes the various word totals obtained in the 1966 study. The 8,506 students wrote a total of 849,157 running words from which 9,045 different words were listed. This represented a type-token ratio of 1:93.88. From the 9,045 different words, 1,715 were removed that were already listed on the International Kindergarten Union List and 2,820 were removed that still had frequencies less than the Criterion Frequency after being merged upward through the grades. The remaining 4,510 words were grade placed. The final type-token ratio of grade placed words was 1:121.76.

. .

TABLE 8
COMPARISONS OF DIFFERENT WORDS OBTAINED, REMOVED, AND GRADE PLACED*

	1966	1926	1926
	II - VI	II - VI	п - мп
dumber of Students	8, 506	16,813	21.695
Fotal Running Words Fotal Different Words	849, 157 9, 045	1, 828, 565	2, 714, 857 12, 622
lype-Token Ratio	1: 93.88		1; 215, 09
KU Words Removed	1, 715 2, 820		1, 759
Fotal Grade Placed Words	4, 510	4, 924	9, 520
lype-Token Ratio of G.P. Words	1: 121.76	1: 371. 39	1: 285, 17

*Buckingham and Dolch reported 4974 words were grade placed in grades two through six. The figure shown here is from the computer tabulation performed during the merging of the 1966 and 1926 lists. The only 1926 totals available that are specifically related to the second through sixth grades are the 16,813 students, the 1,828,565 running words, and the 4,924 grade placed words shown in the second column of figures in Table 8. This writer computed the grade placed type-token ratio of 1:371.39. The 1926 total of grade placed words in this column is not from the Buckingham-Dolch publication. They reported 4,974 words were grade placed; the tabulation performed by the computer during the merging of the 1966 and 1926 lists recorded 4,924 words.

The third column of Table 8 includes the word totals for the whole 1926 study, this includes the seventh and eighth grades. The 21,695 students wrote 2,714,857 running words from which 12,622 different words were listed. The type-token ratio was 1:215.09. One thousand, seven hundred fifty-nine IKU words were removed and 2,481 words with frequencies less than Criterion Frequency were removed. There remained 9,520 words that were grade placed. The grade placed type-token ratio was 1:285.17.

The number of comparisons between the 1966 and 1926 second through sixth grade lists was limited by three missing totals from the 1926 study: (1) the number of different words obtained, (2) the number of IKU words removed, and (3) the number of words with frequencies

ERIC Full Text Provided by ERIC

Burdette R. Buckingham and Edward W. Dolch, A Combined Word List (New York: Ginn and Company, 1936), p. 12.

less than Criterion Frequency. The three totals that were reported for the first five grades revealed a 49.41% reduction of population, a 53.56% reduction of running words, and an 8.4% reduction of grade placed words from 1926 to 1966. The 1926 grade placed type-token ratio was slightly over three times greater than its 1966 ccunterpart.

Common and Unique Grade Placed Words

The term "common word" is frequently used in vocabulary research where comparisons are made or where there is more than one source of the word. For the purposes of this study, the term was used to identify a word that was grade placed on the 1966 and the 1926 lists.

The term "unique word" was used to identify a word that was grade placed on only one of the two lists. When further identification was necessary, the term was accompanied by the source list's date in the following manner: "1966 unique words".

The various data for the following discussion are presented in Tables 9 and 10 (page 94).

The 1966 list consisted of 4,510 different grade placed words (Table 9) and the 1926 list consisted of 4,924 different grade placed words. The two lists, when merged, totaled 6,465 different words,



TABLE 9
UNIQUE AND COMMON GRADE PLACED WORDS

1966 Grade Placed Words:	4510
1926 Grade Placed Words:	4924
1966/1926 Merged Lists:	6465
1966 Unique Words:	1541
1966/1926 Common Words:	2969
1926 Unique Words:	1955

TABLE 10
STATISTICAL DATA OF THE UNIQUE WORDS OF THE 1966 AND 1926 LISTS

Uni	que Words		Source	List	Standard Error	Critical Ratio
List	N	%	I)ate	N	of the Percent	of the Percent
1966	1541	34. 17	1966	4510	.0071	4812.67
1926	1955	39. 70	1926	4924	.0070	5671.43
1966	1541	23.84	Merged	6465	.0055	4334,55
1926	1955	30, 24	"	'n	.0057	5305.26
Merged	3496	54.08	"	"	.0062	8722, 58

(.01 = 2, 98)



with 1,541 unique words from the 1966 list, 2,969 words common to both lists, and 1,955 unique words from the 1926 list.

The data related to the statistical measures of the percents of unique words are presented in Table 10 (page 94). The 1966 study had 1,541 unique words which were 34.17% of the 1966 list's 4,510 grade placed words. The standard error of this percent was .0071, and the resulting critical ratio of the percent was 4812.67.

The 1926 study had 1,955 unique words which were 39,70% of their source list's 4,924 grade placed words. The standard error and the critical ratio of the percent were .0070 and 5671.43.

The 1966 list's 1,541 unique words were 23.84% of the two lists' merged total of 6,465 grade placed words. The standard error of this percent was .0055 and the critical ratio was 4334.55.

The 1926 list's 1,955 unique words were 30.24% of the merged lists' 6,465 different grade placed words. The obtained standard error and critical ratio were .0057 and 5305.26.

The merged lists' total number of unique words was 3,496.

This was 54.08% of the merged lists' 6,465 grade placed words. The standard error of the percent was .0062 with a critical ratio of 8722.58.

By these measures in percent, each group of unique words was compared to its source list and to the merged source lists; and, the

total number of unique words was compared to the merged source lists.

All critical ratios of the percents were significant beyond the (.01)

level.

Grade Level Shift of Common Words

The data describing the 1966 and 1926 grade level distributions reveal a total of 2,969 common words (Table 11, page 97). There were 523 common words placed in the 1966 second grade, 144 of these words came from higher grade levels and 379 words remained at grade level, that is, they were in the 1926 second grade, also. For the specific distribution of the 523 words, 379 came from the 1926 second grade, 75 came from the 1926 third grade, 30 came from the 1926 fourth grade, 28 came from the 1926 fifth grade, and 11 came from the 1926 sixth grade.

There were 600 common words placed in the 1966 third grade,
450 of these words shifted from other grade levels, 282 moved up
from the second grade of 1926, and 168 moved down from the higher
grades of 1926. One hundred fifty words remained at grade level.
Reading further, of the 600 common words placed in the 1966 third
grade, 282 came up from the 1926 second grade, 150 remained in the
third grade, 70 came down from the 1926 fourth grade, 62 came down

TABLE 11

GRADE LEVEL DISTRIBUTIONS OF 2969 WORDS COMIMON TO 1966 AND 1926 LISTS

			Shift Grade	Moved	Mound	Remained		1926	1926 Grade Placements	ments	
		Total	Level	цЪ	Down	Level	=	Ħ	N	>	5
	==	523	141		14	379	379	75	8	28	11
1966	Ш	009	450	282	168	150	782	150	02	29	;
Grade	ΛI	وډ۲	202	317	188	129	133	181	120	;	8 6
Placements	>	623	481	377	201	152	29	145	<u>1</u>	152	5
	М	879	419	419		160	37	82	111	<u> </u>	5
Totals		5963	1999	1395	709	920	868	149	505	536	389

Table to be Read: In the 1966 third grade, there were 600 common words; 450 words came from other grade levels in 1926, 282 moved up from the lower grade and 168 moved down from the higher grades. 150 words remained at grade level from 1926 to 1966. The specific grade level distribution of the 600 words was: 282 came from the 1926 second grade, 150 from the 1926 third grade, 70 from the 1926 fourth grade, 62 from to: 1926 fifth grade, and 36 from the 1926 sixth grade.

TARIE 12

STATISTICAL DATA OF THE SHIFT IN GRADE PLACEMENT OF THE 2969 COMMON WORDS BETWEEN 1926 AND 1966

43.46	. 6133	26.65	791	Difference
2756. 10	.0074	20,34	709	Downward
5161.47	1600.	46.99	1395	Upward
7829.00	9800.	67.33	1999	Total Shift
Ratio	SE%	×	Z	
Critical			;	

from the 1926 fifth grade and 36 came down from the 1926 sixth grade.

An examination of the totals (Table 11) reveals that there were 2,969 common words, with 1,999 changing grade levels. Of the 1,999 words that shifted, 1,395 shifted placement to a higher grade and 604 shifted to a lower grade from 1926 to 1966. The totals in the grade-level distributions show that 898 of the common words were in the 1926 second grade, 641 were in the 1926 third grade, 505 were in the 1926 fourth grade, 536 in the 1926 fifth grade, and 389 were in the 1926 sixth grade. The statistical data measuring the percents of the grade level movements and their significance are presented in Table 12 (page 97). The 1,999 total number of words that shifted grade levels was 67.33% of the 2,969 common words. The standard error of this percent was .0086 with a resulting critical ratio of 7829.00. The 1,395 words that moved upward were 46.99% of the 2,969 common words. The standard error and the critical ratio of this percent were .0091 and 5161.47. The 604 words that moved downward in grade level were 20.34% of the 2,969 common words. The standard error of the percent was . 0074 and the critical ratio was 2756.10.

The differences between number and percent of words moving upward and downward in grade level were 791 words and 26.65% in

favor of the upward movement. The standard error of this percent was .6133 and the critical ratio was 43.46.

All four critical ratios were significant beyond the (.01) level.

Grade Placement Criterion

The Frequency Set Lists most often selected in all grades were those lists of words with frequencies of three. Of 200 randomly drawn, 108 teachers selected the f3 lists. One-half of the teachers were from Western Oregon and one-half from Western Washington. Buckingham and Dolch reported the selection of the frequency of two, except in the second grade where the frequency of three was applied. They described their judges as the authors and their assistants. 2

Student Performances

The purpose of this study was not to compare students, but to compare lists of words. The statistical descriptions and related discussions of the students' performances are presented, however, in response to the frequent criticism that vocabulary research lacks sufficient description of subjects and source material.

Buckingham and Dolch, A Combined . . . , p. 10.

Significance of "Running Words"

The term "running words" in this study does not have the same implications as found in most other studies. This difference is significant in considering the descriptions of the student performances. The number of running words refers to all of the words written by a student, in this study and all others. The number of different words is the total when a word is counted only at its first occurrence. The number of different words is usually much less than the number of running words since the source data is in essay or verbatim form. In this study, however, different words and running words are of the same number, in theory at least, since the student was asked to make a list. A word was found twice on a student's list on rare occasion.

The significant implications are that mean performance reflects more of vocabulary knowledge than expository ability and that comparisons with other research regarding student performances are not valid unless the data creation or results are similar.

Distributions of 1966 Student Performances

The total number of running words obtained was 849, 157

(Table 13, page 101). The 1,736 second grade students produced

102,870 running words, with a mean of 56.7, a median of 52.55, and

a mode of 44.25 words per student.



TABLE 13

STATISTICAL DESCRIPTION OF STUDENT PERFORMANCES

			Grades			
	Second	Third	Fourth	Fifth	Sixth	Total
Number of Students	1,736	1,672	1,659	1,745	1,694	8, 506
Total Running Words	102,870	132, 186	173, 109	207, 257	233, 735	849, 157
Words Per Student						
Average	59.26	79.06	104.35	118.77	137.98	
Mean	56.70	80, 80	102.78	116.92	137.90	
Median	52.55	76.77	102.83	101.00	138,41	
Mode	44.25	68.71	102, 93	109. 50	149.50	
Standard Deviation	14.09	37.80	38.00	50.50	48.64	
Range	3-234	3-240	8 - 268	7-315	5-381	
Skewness	6,83	7.85	- 85	4.49	-3.85	
Kurtosis	. 2240	. 2421	. 2547	. 2362	. 2574	

The 1,672 third grade students, 64 less than in the second grade, wrote 132, 186 running words. Their mean performance v/as 80.8, with a median of 76.77 and a mode of 68.71.

A comparison of the second and third grades indicates that with a 3.7% reduction of student number, the number of running words increased 28.50%, and the increase of mean performance was 42.5%. The difference between means was 24.1 words.

The 1,659 students in the fourth grade wrote 173,109 running words. Their mean performance was 102.78 words with a median 9f 102.83 and a mode of 102.93. The increase of running words from third to fourth grade was 30.96% with a reduction of .8% in sample size. The 21.98 word difference of mean performance was an increase of 27.2%.

The 1,745 fifth grade students wrote 207,257 running words, with a mean performance of 116.92 words and a median and mode of 101 and 109.5. This was an increase of 5.18% over the fourth grade in population, 19.73% in number of running words, and 13.76% in mean performance. The difference of mean performance was 14.14 words.

The 1,694 sixth grade students wrote 233,735 running words.

Their mean performance was 137.90 words with a 138.41 median and 149.5 mode.

The reduction of population from fifth to sixth grade was 2.92% with an increase of running words of 12.78%. The difference between means was 20.98 words or 17.94% increase.

The mean performances increased up through the grades, while the differences between the means decreased successively until the fifth-sixth grade comparison. This difference between means was greater than the difference between the fourth and fifth grade mean performances. All differences of mean performances were significant beyond the (.01) level.

Further consideration of the distribution of student performances reveals an increase of the standard deviations up through the grades except between the fifth and sixth grades. The largest increase is from 14.09 to 37.8 between the second and third grades. An increase of the standard deviation was expected since it was assumed that the low performance extremes would move upward more slowly than the high extremes. This is further clarified by observing the increase and shift of ranges of performances through the grades.

The range of the performances was from 231 words in the second grade to 376 words in the sixth grade. The low performance extreme moved upward only by five words and the highest low-extreme occurred in the fourth grade. The high extreme performance



moved consecutively upward through the grades, from 234 in the second to 381 in the sixth, an increase of 147 words.

All five distributions are significantly skewed at the (.10) level.

No consistent pattern of skewness appears through the grades. The

fourth and sixth grades are negatively skewed at -.85 and -3.85. The

other three grades are skewed in a positive direction, 6.83, 7.85,

and 4.49, uoward. All five curves are leptokurtic (less than .26315).

The second grade is significant at the (.02) level and the fifth grade

is significant at the (.10) level.

Comparisons of 1966 and 1926 Student Performances

Sample size, running words, and average running words per student were used for the comparison of the 1926 and 1966 student performances. No other measures were presented by Dolch.

The difference in sample size and the consistent reduction of performance scores, described below, caused concern regarding this study's validity for making comparisons. For this reason, ungrouped raw score correlations were computed of the following five factors from the descriptive data obtained in the five grades: (1) the grade levels, (2) the reductions of sample sizes in the grades, (3) the reductions of running words in the grades, (4) the differences within

the grades between the reduction of sample size and the reduction of running words, and (5) the reductions of average words per student through the grades. Except for the first factor, the descriptive data are in percents.

The descriptive data for sample size, running words, and average running words per student are presented in Table 14 (page 106).

The obtained correlations are presented in Table 15 (page 107).

Totals and Reductions of Sample Sizes. The total column of Table 14 indicates there were 16,813 students, second through sixth grade in the 1926 study and 8,506 students in the 1966 study. There was a difference of 8,307 students, or, a reduction of 49.41% from the 1926 to the 1966 samples.

It was not intended to achieve the same sample size in the second grade as did Dolch, but rather to have a sampling of approximately 2,200 students in each grade. This would have resulted in an overall size difference of approximately 5,300 students, primarily within the second grade. The loss of subjects described in Chapter III (page 77) increased the difference to 8,307 students. Most of the difference, however, did occur in the second grade. There were 7,560 second graders in the 1926 study and 1,736 in 1966. This was 5,824 less students, or, a reduction of 77.04%. The reductions of sample sizes in the other grades varied from approximately 24% to 29%.



TABLE 14
COMPARISONS OF 1926 AND 1966 SAMPLES AND PERFORMANCES

			GRADES			
	Second	Third	Fourth	Fifth	Sixth	TOTAL
Sample Size						
1926	7, 560	2, 208	2, 350	2, 335	2, 360	16,813
1966	1,736	1,672	1,659	1,745	1,694	8, 506
Difference	5,824	536	169	230	999	8, 307
per cent	77.04	24.28	29.40	25.27	28. 22	49.41
Running Words						
1926	551,880	198,720	329, 000	361, 925	387,040	1,828,565
1966	102, 870	132, 186	173, 109	207, 257	233, 735	849, 157
Difference	449,010	66, S34	155, 891	154, 668	153, 305	979, 408
per cent	81.36	33.48	47.38	42.73	39.61	53.56
Average Words						
1926	73	8	140	155	164	
1966	8	82	104	119	138	
Difference	*	11	96	36	8	-
per cent	19, 18	12.22	25.71	23.23	15.85	
						

TABLE 15

CORRELATIONS OF PERCENTS OF SAMPLE, RUNNING WORD, AND AVERAGE REDUCTIONS, DIFFERENCES OF REDUCTIONS, AND GRADE LEVELS

ı					
		8	60	4	S
	Grade Levels	6763	6083	. 77077	. 1427
	Reductions of Sample Size		. 9764	7608	.0287
	Reductions of Running Words		·	6031	2440
	Differences of SS and RW Reductions			•	. 5913
	Reductions of Average Words per Student				

df = 3 (.01 level = .9590; .05 level = .8780)

The numbers across the top-right of the table coincide with the numbers down the left side, so that the table is read: "Grade Levels had a correlation of -. 6763 with item 2, the Reductions of Sample Size." Totals and Reductions of Running Words. The 1926 total number of running words, again from Table 14, was 1,828,565 and the 1966 total was 849,157. This created a difference of 979,408 running words; a reduction of 53.56%. The reductions within the grades ranged from 66,534 words, 33%, in the third grade to 449,010 words, 81.36%, in the second grade.

Relationships of the Reductions of Sample Size and Running
Words. There were three expectations regarding the reduction of
sample size and the reduction of running words. First, the reduction
of sample size would reduce the total number of running words.

Second, the percents of the two reductions would appear numerically
similar within each grade. That is, if within a grade the sample size
was reduced 10% the running words total would be reduced approximately 10%; and, if in the next grade the sample size was reduced
20%, the running words would be reduced approximately 20%. Third,
when differences did exist between the two reduction percents, they
would reflect a relationship with some other factor.

A correlation measurement (Table 15) revealed that a significant relationship of .9764 existed between the percents of reduction of sample size (item 2) and reduction of running words (item 3). Comparisons of the two reduction percents, sample size and running words, revealed no numerical similarity.

The reduction percent of running words was greater than the reduction percent of sample size in all five grades. The differences between the two percents were approximately 4%, 9%, 16%, 18%, and 12%, in grade order. There were no significant relationships of the differences (item 4) with the four other factors in the correlations: grade levels (item 1), reductions of sample size (item 2), reductions of running words (item 3), and reductions of averages (item 5). The highest correlation obtained was -. 7608 with reductions of sample size (item 2), followed by .7077 with grade levels (item 1).

Averages and Reductions of Running Words Per Student. The 1966 averages of running words per student were less than those of 1926, in all five grades (Table 14). The second grade averages were 73 words per student in 1926, and 59 words per student in 1966, a reduction of fourteen words, or 19.18%. The third grade averages of words per student were 90 in 1926 and 79 in 1966, a reduction of 11 words, or 12.22%. The fourth grade averages of words per student were 140 and 104 in 1926 and 1966. The fifth grade averages were 155 and 119. Both grades had reductions of their averages by 36 words which represented 25.71% in the fourth grade and 23.23% in the fifth grade. The 1926 and 1966 sixth grade averages of words per student were 164 and 138. This represented a reduction of 26 words, or 15.85.6.



Relationships of the Reductions of Running Words Per Student.

The obtained correlations between the reduction percents of the average running words per student and the four other factors (grade levels, reduction percents of sample size, reduction percents of running words, and differences of the sample size and running word reduction percents) indicated that no significant relationships existed. In fact, for each of the other four factors, the lowest obtained correlation was with the reduction percents of the average running words per student. Of primary concern was the possible relationships between reductions of average running words per student and the reductions of sample size and running words. The obtained correlations were .0287 with reductions of sample size and .2440 with reductions of running words.

Summary of the Relationships of the Reductions. The consistent reductions of the several student performance measures from 1926 to 1966 motivated this writer to compute correlations among five factors. These factors were (1) grade levels, (2) reductions of sample size, (3) reductions of running words, (4) differences between reductions of sample size and reductions of running words, and (5) reductions of average running words per student.



Only one significant relationship was revealed, and it was expected; the relationship between reductions of sample size and reductions of running words.

The concern of this writer was to determine if there was some factor within the study that was related to the reductions of average words per student. No significant relationships were discovered.

The highest correlation of reductions of averages was with the differences between reductions of sample size and reductions of running words. The lowest correlation obtained was with reductions of sample size.



CHAPTER V

SUMMARY AND CONCLUSIONS

Purpose of the Study

The primary purpose of this study was to measure the reliability of the Buckingham-Dolch Free-Association Word Study and thus determine the present-day validity of the Free-Association Word List.

The secondary purposes were to determine the necessity for further replicative research, provide a pilot-study for certain research methods, obtain data for future research and to obtain a vocabulary list for classroom use.

Population Studied

The population consisted of 8506 students, second through sixth grades, drawn from six school districts located on the Willamette River Plain. All of these students were enrolled in regular class-rooms.



Procedures

The classroom teachers administered the Response Period. The students were asked to think of and list all the different words that came to mind, for a period of fifteen minutes. The words from the students' Response Sheets were key-punched onto data cards and then recorded onto magnetic tape. Computer programs were used to measure pupil performances, alphabetize the words, and count frequencies. Additional programs edited the words into tabulation forms, removed International Kindergarten Union words, and sorted the words into groups of identical frequencies. Classroom teachers from western Oregon and Washington selected the frequency of three as minimum grade placement criterion. Computer processing assigned grade placements, carried words with less than Criterion Frequency upward through the grades, and deleted duplicate word listings from the higher grades.

The 1966 and 1926 lists were merged and the grade level distributions of the words were tabulated. The two lists were compared by the tabulations for percent of words unique of each list and the shift in grade levels by the words. The statistical significance of the percents were determined by the critical ratios of the percents.



Summary of the Findings

Obtained Words. The number of different words obtained was 9,045 from 849,157 running words. The type-token ratio was 1:93.83. There were 1,715 International Kindergarten Union words and 2,820 words with frequencies less than three that were removed. The remaining grade placed words totaled 4,510. Only the totals of running words and grade placed words could be compared to their 1926 counterparts and they were less than the 1926 totals. All other 1926 totals included seventh and eighth grade performances.

Unique Grade Placed Words. The 1966 list contained 4, 510 different grade placed words and the 1926 list contained 4, 924. The two lists contained 6, 465 different words when merged. There were 1, 541 unique words from the 1966 list. They represented 34.17% of the 1966 list and 23.84% of the merged lists. The 1,955 unique words from the 1926 list were 39.70% of the 1926 list and 30.24% of the merged lists. The total number of unique words was 3,496, 54.08% of the merged lists. All of these percents were significant beyond the (.01) level.

Grade Level Shift of Common Words. There were 1,999 words that changed grade level of the 2,969 common words. These represented 67.33% of the common words. Six hundred four words, 20.34%



of the common words, moved downward in grade level and 1,395 words, 46.99% of the common words, moved upward. All of these percents were significant. The difference between the two directional percents was 26.65% in favor of the upward movement of words.

This difference was statistically significant.

Grade Placement Criterion. The 1926 grade placement criterion was a frequency of three in the second grade and a frequency of two in all other grades. In 1966, one hundred teachers selected the frequency of three as the minimum grade placement criterion.

Student Performance. The sample was approximately 25% 5% 5% below than the 1926 sample throughout the grades, except in the second grade where the reduction was 77%. The running word reduction percents were greater than the sample size reduction percents in all grades. The average numbers of words written by students were less than the 1926 averages in each grade. The only statistically significant relationship among the reductions was between the sample size and running words reductions.

Conclusions

The following conclusions have been drawn from the data of this study. The conclusions are preceded by the relevant hypothesis



and followed by descriptions of necessary interpretations and any assumptions.

Unique and Common Grade Placed Words. The data of this study supports the rejection of the hypothesis: "There is no significant percent of unique words in the 1926 or 1966 lists." The 1926 Free-Association List possesses a low degree of representativeness of 1966 students' vocabulary, in terms of list content. The high percent of words found only in 1926 and only in 1966 direct toward this conclusion.

The necessary interpretation for this conclusion is that the presence of certain words on one list and the absence of the same words on the other list indicate a difference of vocabulary knowledge between the two samples to some proportional degree.

The assumption of the conclusion is that the high percent of unique words would not reoccur if the sociological differences, that are regional and historical in nature, were erased or diminished in a replication of the 1966 study.

Grade Level Shift of Common Words. T data of this study supports the rejection of the hypothesis: "There is no significant percent of common words that changed grade placement between the 1926 and 1966 studies." The 1926 Free-Association List possesses a low degree of representativeness of 1966 students' vocabulary, in



1

terms of achievement, or, grade placement. The high percent of common words that changed grade level directs toward this conclusion.

The necessary interpretation for this conclusion is that the frequency of a word's usage among students reflects the degree of vocabulary achievement of a group.

The necessary assumption for the conclusion is that the selections of the criterion frequencies for grade placement were comparable in terms of criteria for selection and expertise of the judges.

Student Performances. The 1966 sample students knew fewer different words than did the students of the 1926 sample population.

The lower averages of words per student found in the 1966 study direct toward this conclusion.

More students knew the same word in 1966 than in 1926. The 49% reduction of sample size, the higher Criterion Frequency, the 8.4% reduction of grade placed words of the 1966 study and the three times greater type-token ratio of grade placed words from the 1926 study direct towards this conclusion.

The 1966 sample students' vocabulary achievement was later than that of the 1926 sample students' achievement. The high percent of words that moved upward in grade level and the statistically significant difference between the directional percents in favor of the upward movement direct toward this conclusion.



The interpretation necessary for the first conclusion is that the difference in sample sizes did not influence the reductions in student performances. Statistical measures seemed to indicate that the reduction of sample size could not account for the reductions of average words per student.

The necessary interpretations for the second conclusion are that (1) the 49% reduction of sample size and the higher Criterion Frequency of 1966 would make it more difficult for a word to be grade placed, (2) the aforeme tioned would cause a large reduction of grade placed words and a large type-token ratio of grade placed words, and (3) the small reduction of grade placed words and the smaller type-token ratio indicate that a counter-acting influence occurred which could only be more students writing the same words.

The necessary interpretations for the third conclusion are that the lesser number of running words that might produce criterion frequencies more slowly and the higher criterion frequency were counter-acted by the smaller type-token ratio, thus equating the two samples.

An assumption exists for the third conclusion that the selections of the criterion frequencies were comparable in terms of criteria for selection and expertise of the judges.



The basic assumption in all three conclusions is that the task of Free-Association listing does reflect children's vocabulary knowledge and achievement in some proportional way.

Validity of the 1926 Free-Association Vocabulary List. The final conclusion is a summation and is directed by the previous conclusions and their evidence. The 1926 Free-Association List is no longer representative of current students' vocabularies in terms of list content, grade-level assignment, and student performance. This conclusion may be generalized to other vocabulary research of the same time to the degree that their results are similar to the 1926 study and it may be generalized to other student populations to the degree that they are similar to the 1966 sample population.

Implications for the Educator

Validity of Vocabulary Lists

The implications for the educator that were specifically the concern of this study were those regarding vocabulary lists. Most of the vocabulary studies that have had large influence upon instruction were conducted in the same period of time as was the Buckingham-Dolch Free-Association Word Study. The question occurs, how valid are those lists for representing student achievement and how

ERIC Full Text Provided by ERIC

appropriate are they for determining instructional programs? The safest assumption may be that the greatest percent of these lists' content is not representative or appropriate, to the degree that the lists are similar to the 1926 Free-Association Study's results. Furthermore, all their descendant lists, research, and materials are proportionally in question. The educator should rely less on the data of those studies and more upon his own resources if similarities among the lists are revealed. He might do well to replicate the studies within his own school community, until more extensive research is available.

Student Performances

The results of this study that probably have greater impact upon the educator are those that indicated the 1966 students knew fewer words than the students of 1926. The definition of "know" and the students' behaviors for this study are crucial to this discussion, for within them is an unknown quantity: to what degree did each element of "know" influence a student's response? The student may have possessed several meanings of a word, been able to recognize it in print, but not have had sufficient confidence in spelling to list the word. Or, he may have been able to spell the word correctly, but not have had adequate meanings or sufficient associations to recall the word.



The 1966 students may actually have known more words by one of the elements of "know," but by the total definition of "know," used in this study, it must be said they knew less. This differentiation of the elements of "know" will reoccur in further discussion.

The first question to be considered in this discussion is: what might be the reasons for the reduction of student performances? A detailed review of some of the methodology literature of the 1920's and 1930's contrasted with current writings might reveal or suggest answers. Marion Fitzgerald, for example, wrote in 1929, that there should be talks by the teacher about expressive words and readings of selections by masters of expression. She recommended that too much time was being spent in interpretation, more should be given to memorizing passages. She recommended further that (1) there be frequent recitations of memorized passages, (2) students memorize at least twenty proverbs, (3) spelling lessons and lists be centered around a topic, (4) short quotations be presented with the spelling words, and (5) composition assignments be preceded by vocabulary lessons.



Marion Fitzgerald, "Vocabulary Building in Grammar Grades,"
Normal Instructor and Primary Plans, 38:55-56, May, 1929, p. 55.

Alma Groskopf recommended in 1927, that (1) there be specific vocabulary lesson periods, (2) several sentences be presented for each word, (3) special lessons be held on expressions of words, and (4) emphasis be on literary vocabularies.

These suggestions encompass all elements of this study's definition of "know" and most of them seem to contrast with current practice. It should be kept in mind, however, that the reduction of performances may be related to just one of the contrasting practices and through only one of the elements of "know."

What is a more obvious and may be a greater influence upon student performances is the development and increased usage of vocabulary control. This influence may be from the spelling or reading programs, or both.

The second question is: are greater student performances desirable and necessary? We may be in a more communicative society than existed in 1926, but we might actually be saying more, more frequently, with fewer words. Today's student vocabularies, therefore, may be smaller in size but more functional in terms of topical and regional utility. The fact that more students wrote the same words may indicate this.



Alma Greskopf, "Vocabulary Building in the Fifth Grade," Normal Instructor and Primary Plans, 36:34, 90-91, September, 1927, pp. 34, 90.

Implications for the Researcher

There is a need for immediate replication of this study in the same geographical region and in others. The purposes of such studies would be: (1) to determine what additional words exist with equal achievement, (2) to definitely determine the degree of influence of sample size, (3) to establish norms of variance among replicative vocabularies, (4) to provide regional vocabularies and estimates of their differences, and (5) to provide a national core vocabulary. This latter purpose seems of rising importance with the increase of population mobility.

Replications of the other significant and early vocabulary studies are necessary. All of them reflect their sociological settings. Continued reliance upon them and inclusion in more recent research weights the results toward the past. Such replications would also provide estimates of the reliability of the various lists, their methods, and their data sources.

The rapid rate of sociological change calls for a program of replicative research at regular intervals to maintain contemporary validity. The initial problem would be to determine the optimum and necessary intervals for measurement.



Now that replicative data exists and differences have been determined, studies should follow to identify by what words the differences exist.

Research in learning and in vocabulary and the advent of computers indicate need and feasibility for modifications of the data gathering and tabulation methods of vocabulary research. One of the major advantages of the Free-Association method is the smaller amount of running words to be tabulated in proportion to different words obtained. An advantage of the various expository-type methods for data gathering is the resulting intensive word list of a topic and the indication of word meaning. It seems justifiable to merge the methods by calling for topical listings. The intensive word list would result, the meanings of the words might be determined by their "chaining," and there would be the smaller type-token ratio.

Most early research tabulated the words in their root forms except in the case of irregular inferential forms. Research has since indicated that learning differences exist between root words and their regular derived forms, therefore, separate listings of these words would probably be more suitable. It was the experience of this writer that data modification was easier the longer it was delayed in the computer processing. For these reasons, it seems vocabulary research would be more appropriate and processing more expeditious if modifications of raw data were kept at a minimum.



The use of computers dramatically shortens the period of tabulation and at the same time provides a small space, storage system with immediate access. These advantages should increase computer utilization in vocabulary research. This seems to be an opportunity for working toward the establishment of an exchange cooperative or data bank for the purpose of merging, replicating, or contrasting research results.

ERIC *

BIBLIOGRAPHY

- Anderson, William N. Determination of a Spelling Vocabulary Based on Written Correspondence. Iowa City, Iowa: State University of Iowa, 1921.
- Ayres, Leonard P. The Spelling Vocabularies of Personal and Business Letters. New York: Russell Sage Foundation, 1913.
- Barbe, Walter B. (ed.) <u>Teaching Reading: Selected Materials</u>.

 New York: Oxford <u>University Press</u>, 1965.
- Bauer, Nicholas. The New Orleans Public School Spelling List.
 New Orleans: F. F. Hanseai and Bros., 1916.
- Betts, Emmett A. Foundations of Reading Instruction. New York: American Book Co., 1946.
- Buckingham, Burdette Ross, and Dolch, Edward W. A Combined Word List. New York: Ginn and Company, 1936.
- Chancellor, William E. "A Spelling Vocabulary, 1000 Words," Journal of Education, May, 1910.
- Clarke, William F. "Writing Vocabularies," Elementary School Journal, January, 1921, 21:349-351.
- Coleman, William H. A Critique of Spelling Vocabulary Investigations. Greeley, Colorado: Colorado State Teachers College, 1931.
- Cook, William A., and O'Shea, Michael V. The Child and His Spelling. Indianapolis: Bobbs-Merrill Co., 1914.
- Dale, Edgar. "Comparison of Two Word Lists," Educational Research Bulletin, 10:484-489, December, 1931.
- . "Difficulties in Vocabulary Research," Educational Research Bulletin, Columbus, Ohio: Ohio University of Education, 10:119-122, March 4, 1931.

Dale, Edgar. "The Problem of Vocabulary in Reading," Teaching Reading: Selected Materials, Walter Barbe, editor. New York: Oxford University Press, 1965.
. "Vocatulary Measurement: Techniques and Major Findings," Elementary English, 42:895-901, October, 1965.
, and Chall, Jeanne S. "A Formula for Predicting Readability," Educational Research Bulletin, 27:11-20, 18, January, 1948.
, and Razik, Taher. Bibliography of Vocabulary Studies. Columbus, Ohio: Bureau of Educational Research, Ohio State University, 1963.
Dicken, Samuel N. Oregon Geography. Eugene, Oregon: University of Oregon Cooperative Bookstore, 1950.
Dolch, Edward W. "Combined Word Studies," Journal of Educational Research, 17:11-19, January, 1928.
. "Grade Vocabularies," Journal of Educational Research, 16:16-26, June, 1927.
. Methods in Reading. Champaign, Illinois: The Garrard Press, 1955.
Problems in Reading. Chicago: The Garrard Press, 1948.
Instruction, A. J. Harris, editor. New York: McKay Company, 1964.
. "Side Lights on a Combined Word List," Elementary English Review, 14:22-24, January, 1937.
. Teaching Primary Reading. Champaign, Illinois: Garrard Press, 1941.

ERIC Full fact Provided by EBIC

- Dolch, Edward W. "Vocabulary Study by Fields of Interest," Elementary English, 32:283-288, May, 1955.
- Fitzgerald, Marion, "Vocabulary Building in Grammar Grades,"

 Normal Instructor and Primary Plans, 38:55-56, May, 1929.
- Garrett, Henry E. Statistics in Psychology and Education. New York: McKay Company, 1965.
- Garrison, S. C. "Teaching of Spelling," Peabody Journal of Educational Research, 8:94-99, September, 1930.
- Gates, Arthur I. A Reading Vocabulary for the Primary Grades.

 New York: Teachers College, Columbia College, 1926.
- edition. New York: Teachers College, Columbia University, 1935.
- Groskopf, Alma. "Vocabulary Building in the Fifth Grade," Normal Instructor and Primary Plans, 36:34, 90-91, September, 1927.
- Hartmann, George W. "Critique of the Common Method of Estimating Vocabulary Size, Together with Some Data on the Absolute Word Knowledge of Educated Adults," Journal of Educational Psychology, 32:351-358. May, 1941.
- Harris, Albert J. Readings on Reading Instruction. New York: McKay Company, 1964.
- Horn, Ernest. A Basic Writing Vocabulary: 10,000 Words Most Commonly Used in Writing. Iowa City, Iowa: University of Iowa, 1926.
- . "The Commones: Words in the Spoken Vocabulary of Children up to and Including Six Years of Age," Twenty-Fourth Yearbook of the National Society for the Study of Education, Part I. Bloomington, Illinois: Public School Publishing Company, 1925.

ERIC

- Horn, Ernest. "Validity and Reliability of Adult Lists," Elementary English Review, 16:129-134, April, 1939.
- . "The Vocabulary of Banker's Letters," English Journal, 12:383-397, June, 1923.
- Horn, Madeline D. A Study of the Vocabulary of Children Before

 Entering the First Grade. Washington D. C.: International
 Kindergarten Union, 1928.
- Houser, J. David. "An Investigation of the Writing Vocabularies of Representatives of an Economic Class," Elementary School Journal, 17:708-718, June, 1917.
- Jones, Wallace F. Concrete Investigation of the Material of English

 Spelling. Vermillion, South Dakota: State University of South
 Dakota, 1915.
- Kirk, Samuel A., and Johnson, G. Orville. Educating the Retarded Child. Cambridge, Massachusetts: Riverside Press, 1951.
- Knott, Thomas A. "Observations on Vocabulary Problems: Critique of the Seventh Annual Research Bulletin of the National Conference on Research in English," Elementary English Review, 17:63-67, February, 1940.
- Kolson, Clifford J. "Oral Arithmetic Vocabulary of Kindergarten Children," The Arithmetic Teacher, 10:81-83, February, 1963.
- . Vocabulary of Kindergarten Children. Doctoral Dissertation, Pittsburgh, Pennsylvania: University of Pittsburgh. 1960.

ERIC

- LaBrant, Lou L., and others. "Needed Research in Language Expression," Elementary English, 29:35-38, January, 1952.
- Leifste, Bertha V. "An Investigation of the Reliability of the Sampling of Reading Material," <u>Journal of Educational Research</u>, 37:441-450, February, 1944.

- Lobdell, Lawrence O. "Let's Update the Word Lists," Elementary English, 42:156-158, February, 1965.
- McKee, Paul. "Research Values in Children's Writing Vocabularies," Elementary English Review, 7:73-77, March, 1930.
- Nicholson, Anne. A Speller for the Use of the Teachers of California.

 Sacramento: California State Printing Office, 1914.
- Packer, J. L., and Beck, May M. "The Vocabulary of Ten First Readers," Twentieth Yearbook of the National Society for the Study of Education, Part II. Bloomington, Illinois: Public School Publishing Company, 1921.
- Payne, Bruce R., and Garrison, Sidney C. Payne-Garrison Speller. Chicago: Rand McNally and Co., 1945.
- Rinsland, Henry D. A Basic Vocabulary of Elementary School Children. New York: MacMillan Co., 1945.
- Strand, Ruth, McCullough, Constance, and Traxler, Arthur.

 Problems in the Improvement of Reading. New York: McGraw-Hill Publishers, 1955.
- Studley, Clarence K., and Ware, Allison. Common Essentials in Spelling. Bulletin No. 7. Chico, California: Chico State Normal School, 1914.
- Thorndike, Edward L. The Teacher's Word Book. New York: Teachers College, Columbia University, 1921.
- A Teacher's Word Book of the 20,000 Words Found Most Frequently in General Reading For Children and Young People.

 New York: Teachers College, Columbia University, 1932.
- The Teacher's Word Book of 30,000 Words. New York:
 Teacher's College, Columbia University, 1944.



- Thorndike, Edward L. "Value of Word-Counts: Critique of the Seventh Annual Research Bulletin of the National Conference on Research in English," Elementary English Review, 17:60-62, February, 1940.
- _____. "Vocabularies of School Pupils," Contributions to

 Education, Vol. 1, New York Society for the Experimental
 Study of Education. Terrytown-on-Hudson, New York: World
 Book Company, 1924.
- . "Word Knowledge in the Elementary Schools," Teachers College Record, 22:334-370, September, 1921.
- Tidyman, Willard F. Survey of the Writing Vocabularies of Public School Children in Connecticut. United States Bureau of Education, Leaflet No. 15. Washington: Government Printing Office, 1921.
- Wheeler, Helen E., and Howell, Emma. "A First-Grade Vocabulary Study," Elementary School Journal, 31:52-60, September, 1930.

APPENDIX A

MATERIALS USED FOR ADMINISTRATION OF FREE-ASSOCIATION RESPONSE PERIOD

The state of the s

SCHOOL OF EDUCATION

BUGENE, OREGON 97403 telephone (code 503) 342-1411

FREE-ASSOCIATION WORD STUDY

.11

Dear teacher:

Almost all vocabulary data used today, can be traced back to research before 1935. Even recent studies have relied or included this early information. For several years, authorities have suggested that we repeat those early studies. That is the purpose of this project.

In 1926, Edward Dolch conducted this type of study, which became a source of the Buckingham-Dolch Word List. This list is still considered one of the most significant.

You and almost 540 other teachers, with over 16,000 students, are assisting us. From what literature we have found, this may be the first major vocabulary research in the Pacific Northwest.

We apologize for the short notice and inconvenience to you. The elements of the study require that it be done in the Spring, and we had planned for next year. Recently, however, we were informed that the computer center could not then program for us.

We hope the results of this study will provide us with (1) an estimate of the adequacy of currently used word lists for the Willamette Valley, (2) an estimate of children's word-knowledge that we are not utilizing in the classroom, and (3) a regional word list that you may use as a supplementary resource in your language arts programs.

Thank you for your time, patience, and effort.

UNIVERSITY OF OREGON

H. Donald Jacobs Graduate Assistant School of Education

School of Education University of Oregon

Dr. Jordan Utsey
Associate Professor
Committee Chairman

ERIC

INSTRUCTIONS FREE-ASSOCIATION WORD STUDY

- 1. Make sure that all students have:
 - (a) A pencil or pen for writing.
 - (b) Cleared all other objects from their desk tops.
- 2. Distribute one (1) blank paper to each student.
- 3. Say: "YOU MAY WRITE ON BOTH SIDES. I HAVE MORE SHEETS IF YOU NEED THEM."
- 6. Pause
- 5. Say: "THINK OF AND WRITE DOWN, ALL THE DIFFERENT WORDS THAT YOU CAN."
- 6. If necessary, repeat the directions once to the group.
- 7. Answer all other questions to individuals, if possible. Try to use few words and not be overheard by others. If possible, use a gesture for an answer.

(a) 3 columns on each side of the paper is preferred

- (b) Students may write or print
- (c) For spelling help, tell the student to do his best
- 8. At end of 15 minutes, say: "STOP"
- 9. Pause, see that all have stopped,
- 10. Say: "BOYS, PUT AN 'M' IN THE TOP, RIGHT CORNER."

 "GIRLS, PUT AN 'F' IN THE TOP, RIGHT CORNER."

 (Pause)

"IF YOU LIVE IN TOWN, PUT 'YES' IN THE SAME CORNER. IF YOU DO NOT, PUT 'NO' THERE."

(Pause)

"IF YOU RIDE THE BUS TO SCHOOL, PUT A LETTER 'B' IN THE SAME CORNER."

- 11. If a student has used more than one page, make certain they are securely fastened together by staple, clip, or fold.
- 12. Direct the students to return the sheets.
- 13. You may now explain the study to the students, if you wish.
- 14. Return the Response Sheets, with this Instruction Sheet on top, to the office.

APPENDIX B

HANDBOOK
"PROCEDURE SPECIFICATIONS"

PROCEDURE SPECIFICATIONS

"A Replicative Study of the Buckingham-Dolch Free-Association Word Study"

- 1 Sort Response Sheets into Cells
 - 1.1 Male-Female
 - 1.2 Urban-Rural
 - 1.3 Grade Level
- 2 Indicate Cell Code on Response Sheets and Data Cards
 - (1) Urban-Male(2) Urban-Femal 2.1

(3) Rural-Male

Urban-Female

(4) Rural-Female

- 2.2 Grade = Color
 - = red
 - = yellow
 - = blue
 - = brown

 - = green
- 2.3 Identify card trays so:

Grade X

Cell X

(Urban-hale)

Box A

- 3 Key-punch Data Cards by Cells using following conventions
 - 3.1 Punch words in columns 1-79
 - 3.1.1 Leave column-space between each word
 - 3.1.2 Run together "open words"
 - 3.1.3 Punch "hyphen words"
 - 3.1.4 A word that is incomplete in column 79 runs into column 1 of next card
 - 3.1.5 If space falls on column 80 carry into column 1 of next card
 - 3.1.6 Correct spelling only if certain of word intended.
 - Spelling errors punched as errored if not 3.1.7

- 3.1.10 If singular and plural or present and past are both written by the same student, enter just one.
- 3.1.11 One operator to cell, name on tray label
- 3.2 Punch Cell-Code in column 80 of each card
- 3.3 Indicate end of Response Sheet by asterisk
 - 3.3.1 One Column-space between last word and asterisk
 - 3.3.2 Start new Response Sheet with new data card
- 3.4 Key-punch Leader Card
 - 3.4.1 White Card
 - 3.4.2 At front of card deck
 - 3.4.3 i.c.: Grade 2, Cell 1, Male-Urban
- 3.5 "Proof" Data Cards
 - 3.5.1 "Dump" Run of Data Cards
 - 3.5.2 Blank sheet cover on Dump
 - C.5.3 Label "Dump Sheet" as to cell; indicate if more than one box of cards for the cell
 - 3.5.4 Proof "Dump" Sheat
 - 3.5.4.1 List edits for Phase 10 on last page of dump when change will affect more than one card.
 - 3.5.4.2 hake carton label
 - 3.5.4.3 Return to key-puncher
 - 3.5.4.4 Mark other edits on Error Card
 - 3.5.4.4.1 In right-top corner of card
 - 3.5.4.4.2 Put number of space of first letter of word followed by word as corrected
 - 3.5.4.4.3 i.e.: #43 who

ERIC

Full Text Provided by ERIC

- 4 Program PDJ-1, create raw data cape
 - 4.1 Input = "RAW DATA" cards (\emptyset C)
 Output = "RAW DATA" tape (183), print-out (\emptyset C)
 - 4.2 Cards in order punched
 - 4.3 Stip words off cards, block onto tapa
 - 4.3.1 Read Cell Code From card cut, 80, attach to each word on tape
 - 4.3.2 One-page print-out as operational check
 - 4.4 Output = grade level and "RAW DATA" = Permanent File = Input 5, PDJ-2A = remains 183 to PDJ-3A
- 5 Program PDJ-2A, student and word count
 - 5.1 Input = "RAW DATA" tape (183)
 Output= "N/Wf" tape (182) and "N/Wf" print-out (ØE)
 - . 5.2 Number and write asterisks as students
 - 5.2.1 Count and write sum of words between asterisks
 - 5.2.2 Add total running sums of words and write
 - 5.2.3 Read and write Cell Code
 - 5.3 Format: STUDENT NO. NO. WORDS TOTAL CELL
 - 5.4 Output tape = Scratch
 - 5.5 Output listing = grade level and "N/Wf" = for tabulation
- 6 Program PDJ-2B, alpha-sort
 - 6.1 Input="RAW DATA" tape (183)
 Output="ALPHA-S" tape (182)
 - 6.2 Read from tape to discs (190 and 191) for sort
 - 6.3 Write on tape 182
 - 6.4 Output = grade level and "ALPHA-S" = Permanent File thru PDJ-7C

```
= remains 182 to PDJ :
= Input #?, PDJ-2C
```

- 7 Program PDJ-20, compressing alpha-sort
 - 7.1 Input = "ALPHA-S" tape (182)
 Output= "ALPHA-f" tape (181), print-out (ØE)
 - 7.2 Write entry once, count frequency and write
 - 7.3 Format:

- 7.4 Output tape = grade level and "ALPHA-f" = Perm. File to PDJ-4C, then Scratch = remains 181 = Input 14, PDJ-4C
- 7.5 Output listing = g.1. and "ALPHA-f" = for tabulation = for proofing, 9.2
- 8 Program PDJ 3, tentative edit
 - 8.1 Input = "ALPHA-f" tape (181)
 Output= "TENT. EDIT" tape (180), print-out (ØØE)
 - 8.2 Read from end of words thru col. 3 for endings in order and write:

```
-ies write 'y'
-es blank
-s "
-ed "
-est "
-ing "
```

8.3 Format:

8.4 messages:

```
//REMOVE 'A-S' 182, PLACE SCRATCH 182 FOR PDJ-4A
//REMOVE 'RAW' 183, PLACE SCRATCH OR 'IKU' 183 FOR PDJ-4-
```

8.5 Output tape = grade level and "TENT. EDIT" = remains 180

- 8.6 Output listing = g.l. and "TENT. EDIT" = for proofing
- 9 Proof "Alpha-f" and "Tentative Edit"
 - 9.1 Proof "Tentative Edit" first
 - 9.1.1 Indicate change in order by dash preceding "Before" word
 - 9.1.2 Indicate spelling change of edit by correcting word in "After" column
 - 9.1.3 Indicate removal of "Before" word by ' in "After" column
 - 9.1.4 Indicate removal of edit by correcting "After" word to be identical to "Before" word
 - 9.1.5 Circle "Before" word when uncertain of word intended, draw dash through "After" column
 - 9.2 Proof "Alpha-f"
 - 9.2.1 Omit all entries found on "Tentative Edit"
 - 9.2.2 Consider space between word and frequency as "After" column
 - 9.2.3 Follow same notation procedures as in 8.1
- 10 Key-punch "Edit" cards from proofed "Alpha-f" and "Tentative Edit"
 - 10.1 Key-punch all entries preceded by dash
 - 10.2 Key-punch "Before" word as appears
 - 10.3 Key-punch "After" entry so:
 - 10.3.1 As corrected in spelling
 - 10.3.2 ' leave blank
 - 10.3.3 leave blank
 - 10.4 Key-punch frequency as appears
 - 10.5 Format for "Edit" cards

Columns	Data	
1-15	"Before" wor	÷
21-35	"After" word	į
38-4ú	Frequency	

- 10.6 Proof key-punching from cards and "Alpha-f" and "Tentative Edit" print-outs
- 11 Distribute lists to judges of those words not certain of what intended.
 - 11.1 Remove cards of words circled in "Before" column (Refer to 8.1.5).
 - 11.1.1 Alphabacically sort cards by "Before" words
 - 11.1.2 Run print-out of cards for each judge
 - 11.2 Judges record their decisions of word intended
 - 11.2.1 Tabulate decisions, indicate consensus
 - 11.2.2 Write "After" word on card when consensus Obtained
- 12 Program PDJ-4A, edit tape.
 - 12.1 Input = "Edit" cards (ØØC), "TENT. EDIT" tape (180)
 Output = "APPROVED EDIT" tape (182)
 - 12.2 Put "EDIT" cards from "TENT. EDIT", "ALPHA-f" proofs and judges' lists together within each grade
 - 12.3 Alpha-sort "EDIT" cards by "Before" word, columns 8 thru 1, in that order.
 - 12.4 Merge "EDIT" cards/"TENT. EDIT" tape
 - _2.4.1 Card entry < tape entry, write card word
 - 12.4.2 Card "Before" word = tape "Before" word, write card entry
 - 12.5 Output = grade level and "Approved Edit" = remains 182 = Input 13, PDJ-4B
- 13 Program PDJ-4B, "Before" alpha-sort.
 - 13.1 Input = "APP'D EDIT" tape (182)
 Output = "APP'D EDIT 'B'" tape (182)
 - 13.2 Alpha-sort "APP'D EDIT" tape by "Before" words



- 13.3 Output = grade level and "APP'D EDIT 'B'"

 = remains 182

 = Input 14, PDJ-4C

 = Input 15, PDJ-4D
- 14 Program PDJ-4C, delete "Befores"
 - 14.1 Input = "APP'D EDIT 'B'" tape (182), "ALPHA-f" tape (181)

 Output = "ALPHA-f 'D'" tape (180)
 - 14.2 Merge "APP'D EDIT 'B'"/"ALPHA-f"
 - 14.2.1 Edit "Before" word = Alpha word, do not write
 - 14,2.2 Edit "Before" word #Alpha word, write Alpha word
 - 14.3 Output = grade level and "ALPHA-f D"" = remains 180 = Input 16, PDJ-4E
- 15 Program PDJ-4D, alpha-sert "AFTERS"
 - 15.1 Input = "APP'D EDIT 'B'" tape (182)
 Output "APP'D EDIT 'A'" tape (182)
 - 15.2 Alpha-sort "APP'D EDIT" tape by "After" words
 - 15.3 Output = grade level and "APP'D EDIT 'A'"
 = remains 182
 = Input 16, PDJ-4C
- 16 Program PDJ-4E, merge corrections
 - 16.1 Input = "APP'D EDIT 'A'" tape (182), "ALPHA-f 'D'" tape (180)
 Output = "Alpha-S EDITED" (181)
 - 16.2 Merge "APP'D EDIT 'A'"/"ALPHA-f 'D'"
 - 16.2.1 Edit word < Alpha word, write Edit word with f
 - 16.2.2 Edit word = Alpha word, write Edit word with f
 - 16.2.3 " = " write Alpha word with f
 - 16.2.4 Edit word > Alpha word " " " " "
 - 16.3 Output = grade level and "ALPMA-S EDITED" = remains 181 = Input 17, PDJ-4F
- 17 Program PDJ-4F, compress edited data

3

- 17.1 Input = "AL HA-S EDITED" tape (181)
 Output = ALPHA-f EDITED" tape (180)
- 17.2 Read entry and write word
 - 17.2.1 Read = entries, aid and write f
 - 17.2.2 Resd # entry, write # entry
- 17.3 Output =grade level and "ALPHA-f EDITED" =Perm. File thru 19, PDJ-4H =remains 180 =Input 19, PDJ-4H
- 18 Program PDJ-4G, create "IKU" tape
 - 18.1 Input = "IKU" cards (ØC)
 Ouptput = "IKU" tape (183)
 - 18.2 Key-punch IKU cards in same format as Raw Data, without col. 80 reserved.
 - 18.3 Read cards onto tape
 - 18,4 Remove PDJ-4G after grade II processed
 - 18.5 Message

//REMOVE THIS PROGRAM AFTER "IKU" CREATION

- 18.6 Output = "IKU" = Perm. File thru 19, PDJ-4H, of all grades = remains 183 = Input 19, PDJ-4H
- 19 Program PDJ-4H, remove "IKU" words
 - 19.1 Input = "IKU" tape (183), "ALPHA-f EDITED" tape (180)
 Output = "NET ALPHA" tape (181), "IKU-f" print-out (ØE)
 - 19.2 herge "IKU"/"ALPHA-f EDITED"
 - 19.2.1 Alpha word < IKU word, write alpha entry
 - 19.2.2 Alpha word = IKU word, do not write alpha entry print-out IKU word, alpha frequence
 - 19.2.3 Alpha word > IKU word, print-out IKU word, "NOT ON FILE"
 - 19.3 messages:

//CHECK G.L. NO. IN PDJ-4H DECK //REPOVE 'NET ALPHA' 181, 'IKU' 183 //MOUNT SCRATCH 182, 'RAW DATA' 183 FOR NEXT GRADE //RFTLACE G.L. NO. IN PDJ-4H DECK

19.4 Cutput tape =grade level and "NFT ALPHA" =Perm. File thru 22, PDJ-6A =Input 20, PDJ-5 =Input 22, PDJ-6A

- 19.5 Output listing = grade level and "IKU DELETES" = for tabulation
- 20 Program PDJ-5, sort into frequency sets
 - 20.1 Input = "NET ALPHA" tape (181)
 Output = "f-SETS" tape (182), print-out (44E)
 - 20.2 Read frequency, write words in frequency order
 - 20.2.1 Alpha-sort within Frequency Set
 - 20.2.2 Double column list on print-out
 - 20.3 Output tape = grade level and "f-SETS" = Scratch
 - 20.4 Output listing = g.l. and "f-SETS" = for reproduction
- 21 Teachers select criterion frequency
 - 21.1 Letters to sch. dist. administration for assistance and list of teachers
 - 21.1.1 List of districts
 - 21.1.2 Returns from districts
 - 21.2 Select teachers from dist. lists
 - 21.3 Stencil letter of request and post-card, address stamp post-card and envelope
 - 21.3.1 Four mail tags per teacher
 - 21.3.2 Tag on list, letter, post-card, envelope
 - 21.4 Send letters
 - 21.5 Returns from teachers
 - 21.5.1 Mark off if not willing
 - 21.5.2 Check if willing



- 21.6 Prepare materials
 - 21.6.1 Cut, mount, and reproduce f-SETS of words by grade-revels
 - 21.6.2 Stencil instruction letter and ballot card; make 3 mail tags per teacher
 - 21.6.3 Tags on letter, card, envelope; address stamp on card, envelope
 - 21.6.4 Prepare packets
 - 21.6.4.1 f-SETS list from same _rade as teacher
 - 21.6.4.2 Letter, ballot-post-card
- 21.7 Send packets
- 21.8 Returns from teachers
 - 21.8.1 Tabulate selections
 - 21.8.2 W. Wash., W. Ore., E. Wash., E. Ore.
 - 21.8.3 Select grade-placement Criterion frequency
- ALL PROCESSING PREVIOUSLY DESCRIBED MUST BE COMPLETED FOR ALL GRADES BEFORE PROCEEDING
- 22 Program PDJ-6A, create grade-level lists
 - 22.1 Input = "NET III" tape (181), "NET II" tape (182) Output = " Σ II-III" tape (183)
 - 22.2 Carry fl, f2 words upward; remove fl, f2 from lower grade, remove duplicate grade-placements, create master list
 - 22.3 Merge "NET II" / "NET III"
 - 22.3.1 Word₁ < word₂, (1=II, 2=III) $-f_1 < 3$, write word₁, f_1 , GL_2 $-f_1 = 3$ or more, write word₁, f_1 , GL_2
 - 22.3.2 Word₁ = Word₂, -f₁ <3, write word₁, f₁+f₂, G.L.₁ -f₁ =3 or more, write word₁, f₁, G.L.₁

22.4 Messages:

//MOUNT MEXT GRADE 181, MOVE 'T' 182

22.5 Output = " \(\Sigma\) II-III" = Input 22.6, PDJ-6A = move to 182

22.6 Program PDJ-6A repeat for grade IV

22.6.1 Input = "NET IV" (181), " \(\Sigma\) II-III" (182)
Output = "\(\Sigma\) II-IV" (183)

22.6.2 Same procedures 22.2 thru 22.4

22.6.3 Output = " \(\Sigma \text{II-IV"} \)
= Input 22.7, PDJ-6A
=move to 182

22.7 Program PDJ-6A repeat for grade V

22.7.1 Input = "NET V" (181), " Σ II-IV" (182) Output = " Σ II-V" (183)

22.7.2 Same procedures 22.2 thru 22.4

22.7.3 Output = " \(\Sigma \text{II-V"}\)
= Input 22.8, PDJ-6A
= move to 182

22.8 Program PDJ-6A repeat for grade VI

22.8.1 Input = "NET VI" (181), " Σ II-V" (182) Output = " Σ '66" (183)

22.8.2 Same procedures 22.2 thru 22.4

22.8.3 Output = " \(\tilde{1} \) 66" = Input 23; PDJ-6B = leave on 183

23 Program PDJ-6B, remove and list residual fl, f2 words

23.1 Input = "\S'66" (183)
Output = "1966" (182), "RESIDUAL" print-out (ØE)

23.2 Read entry:

23.2.1 f < 3, print word and f

23.2.2 f=3 or more, write entry

23.3 message:

//REMOVE 'NET' 181, MOUNT SCRATCH 181

- 23.4 Output tape = "1966"
 Input 24; PDJ-6C
 = leave on 182
- 23.5 Output listing = "RESIDUAL fl, f2 WORDS" = for tabulation
- 24 Program PDJ-7A, create 1926 tape
 - 24.1.1 Color code cards as "RAW DATA" cards.

 24.1.2 Grade level in col. 80.
 - 24.2 Input = "1926 CARDS" (ØØC)
 Output = "1926 GRADE LEVEL" (180)
 - 24.2.1 Read word, write word
 - 24.2.2 Read col. 80, write grade level with each word
 - 24.2.3 Output = Scratch = Input 26, PDJ-7B = remains on 180
- 25 Program PDJ-7B, alpha-sort 1926
 - 25.1 Input = "1926 GRADE LEVEL" (180) Output = "1926" (181)
 - 25.2 Alpha sort words, write with grade levels
 - 25.3 Output = Input 27, PDJ-7C = remains on 181
- 26 Program PDJ-7C, merge 1926 and 1966
 - 25.1 Input = "1926" (181), "1966"(182)
 Output = "26/66" tape (183), listing (\$\sqrt{E}\$)
 - 26.2 Read '26 word and '66 word
 - 26.2.1 '26 word '66 word; write '26 word, '26 G.L. in col. 20
 - 26.2.2 '26 word = '66 word; write '26 word, '26 G.L. in col. 20, '66 G.L. in col. 17.
 - 26.2.3 '26 '66 word; write '66 word, '66 GL in col.1'

- 26.4 Output tape = Perm. File
 Output listing = for reproduction
 = for tabulation
- 27 Program PDJ-8A, word tabulation
 - 27.1 Input = "26/66" (183)
 Output = "WORD TABULATION" (46E)
 - 27.2 Read 1926 grade level column

27.2.1 '26=0, add 1 to "N of ZERO '26"

27.2.2 '26=X, go to "READ 1926"

- 27.3 Read 1926 grade level column
 - 27.3.1 '66=0, add 1 to "R OF ZERO '66"

27.3.2 '66=X, go to "COMPARE"

- 27.4 Compare
 - 27.4.1 26 66, add 1 to "h 26 66"

27.4.2 26 =66. " " " " 26 =66"

27.4.3 26 66, " " " N 26 66"

- 27.5 Output listing = for analysis
- 28 Program PDJ-8B, grade-level listings
 - 28.1 Input = "26/66" (183)
 Output ' "GRADE LEVEL II LIST" ($\phi\phi$ E)
 - 28.2 Read entry

28.2.1 Grade level = 2, write word only

28.2.2 Grade level 2, go to next word

28.3 Message:

//CHANGE G.L. SELECTION CARD

- 28.4 Output = for reproduction = double column listing
- 28.5 Program PDJ-8B repeat for grade III
 - 28.5.1 Input = "26/66" (183)
 Output = "GRADE LEVEL III LIST (\$\phi E)\$

28,5.2 Change grad. Level selection card in PDJ-88 deck to "3"

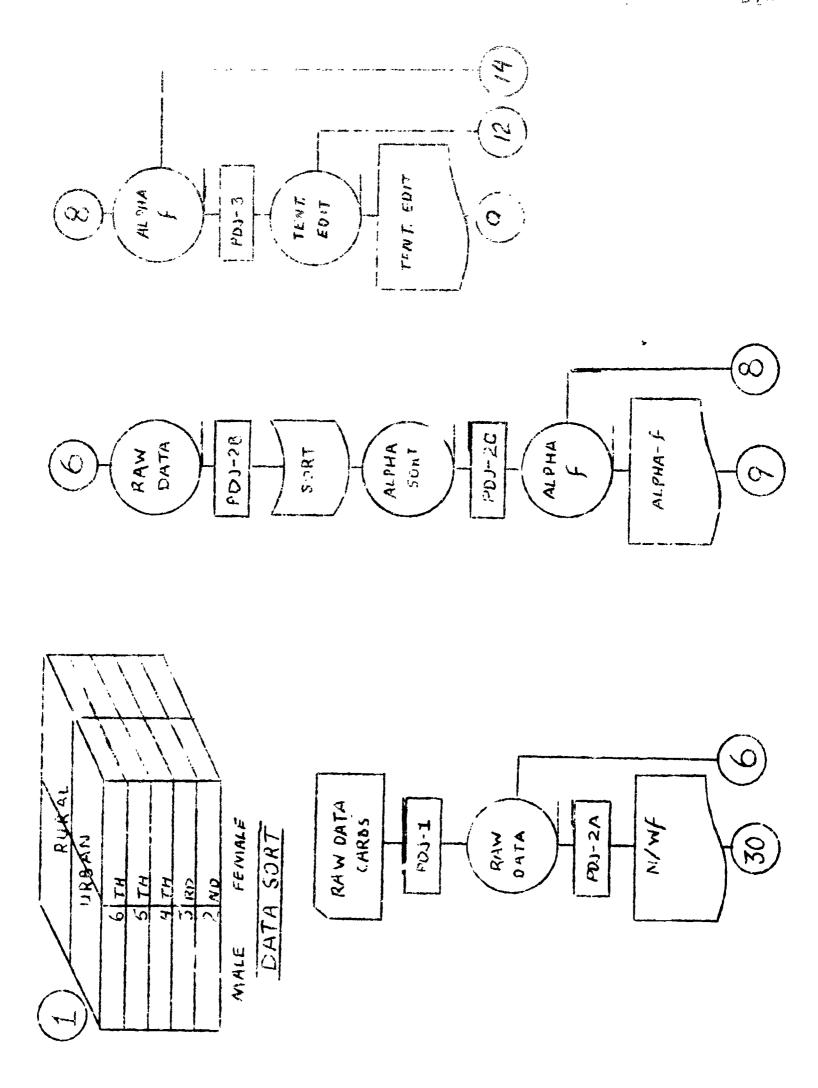
114

28,5,3 Procedures 28,2 thru 28,4

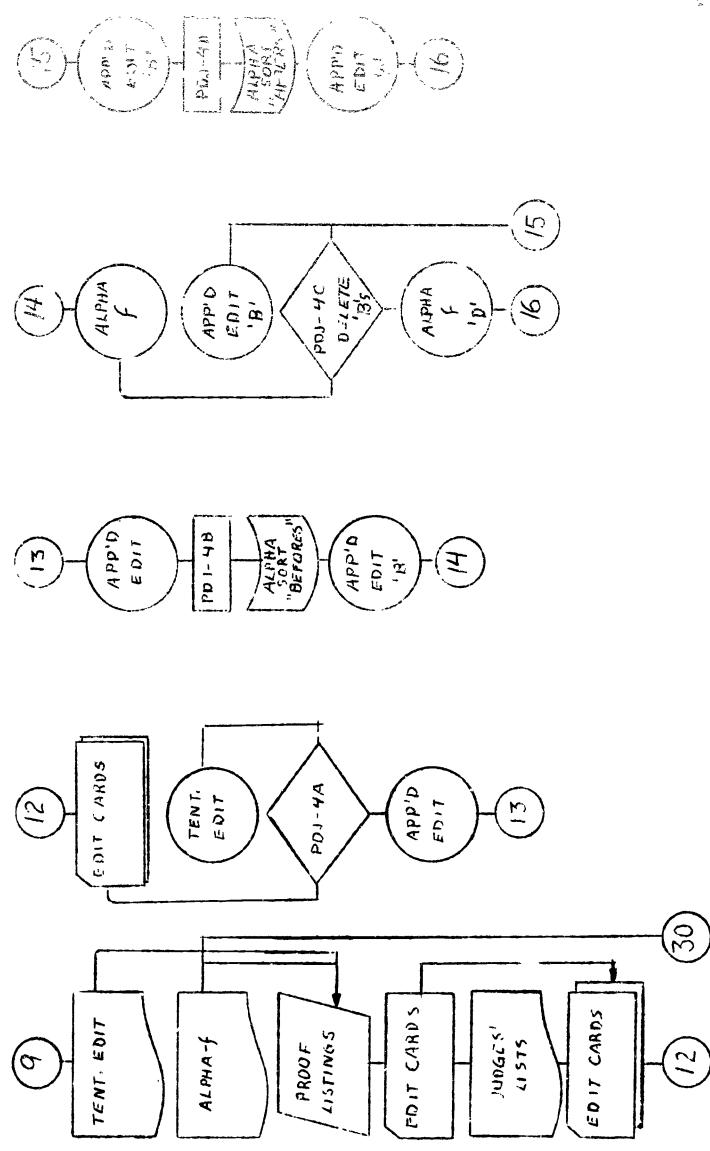
- 28.6 Program PDJ-8B repeat for grade IV
 - 28.6.1 Input = "26/66" (183)
 Output = "GRADE LEVEL IV LIST" (ØØE)
 - 28.6.2 Change G.L. card in PDJ-8B deck to "4"
 - 28.6.3 Procedures 2: 2 that 28.4
- 28.7 Program PDJ-8B repeat ror grade V
 - 28.7.1 Input = "26/66" (183)
 Output = "GRADE LEVEL V LIST" (ØØE)
 - 28.7.2 Change G.L. Card in PDJ-8B deck to "5"
 - 28.7.3 Procedures 28.2 thru 28.4
- 28.8 Program PDJ-8B repeat for grade VI
 - 28.8.1 Input = "26/66" (183)
 Output = "GRADE LEVEL VI LIST" (\$\sqrt{6}\text{E})
 - 28.8.2 Change G.L. Card in PDJ-8B deck to "6"
 - 28.8.3 Procedures 28.2 thru 28.4
- 29 Reproduction of listings
 - 29.1 Cut and mount columns of words from grade level listings of PDJ-8B
 - 29.2 Photo-reduction "litho" plates
 - 29.3 Cut and mount columns of words from '26/66' listing of PDJ-7C
 - 29.4 Photo-reduction "litho" plates
- 30 Analyze word data
 - 30,1 Label, count, tabulate types of words by data categorie
 - 30.2 Use listings from processing
 - 30.2.1 "N/Wf", PDJ-2A
 - 30.2.2 "ALPHA-f", PDJ-2C

A SECTION OF THE SECT

- 30.2.3 "IKU f DELETES", PDJ-4H
- 30.2.4 "f-SETS", PDJ-5
- 30.2.5 "RESIDUAL", PDJ-6B
- 30.2.6 "WORD TABULATION", PDJ-8A
- 30.2.7 "GRADE LEVEL LISTS", PDJ-8B

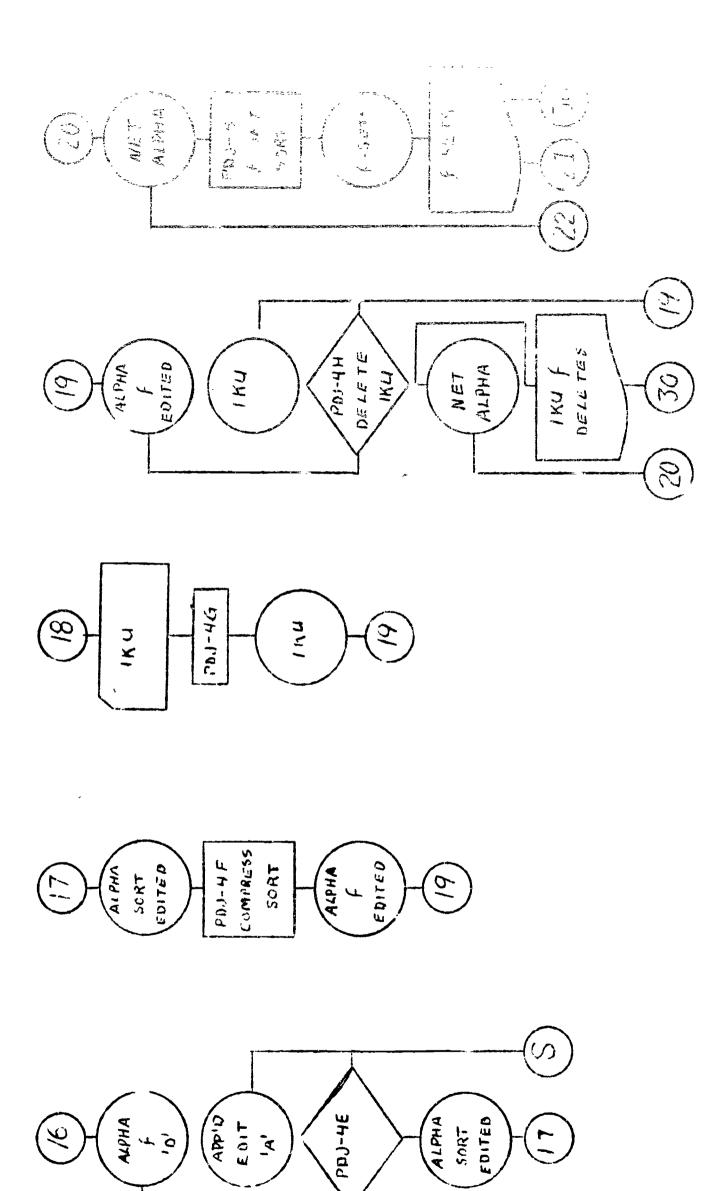


ERIC



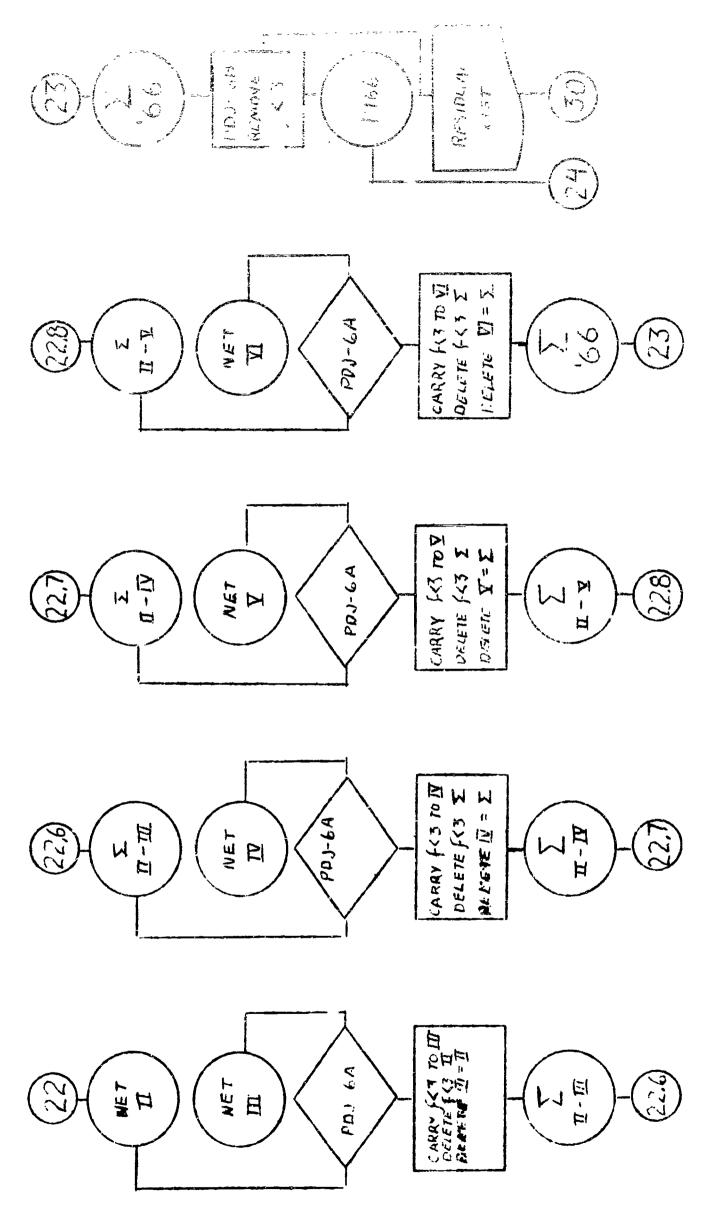
ERIC Full Best Provided by ERIC

The state of the state of the



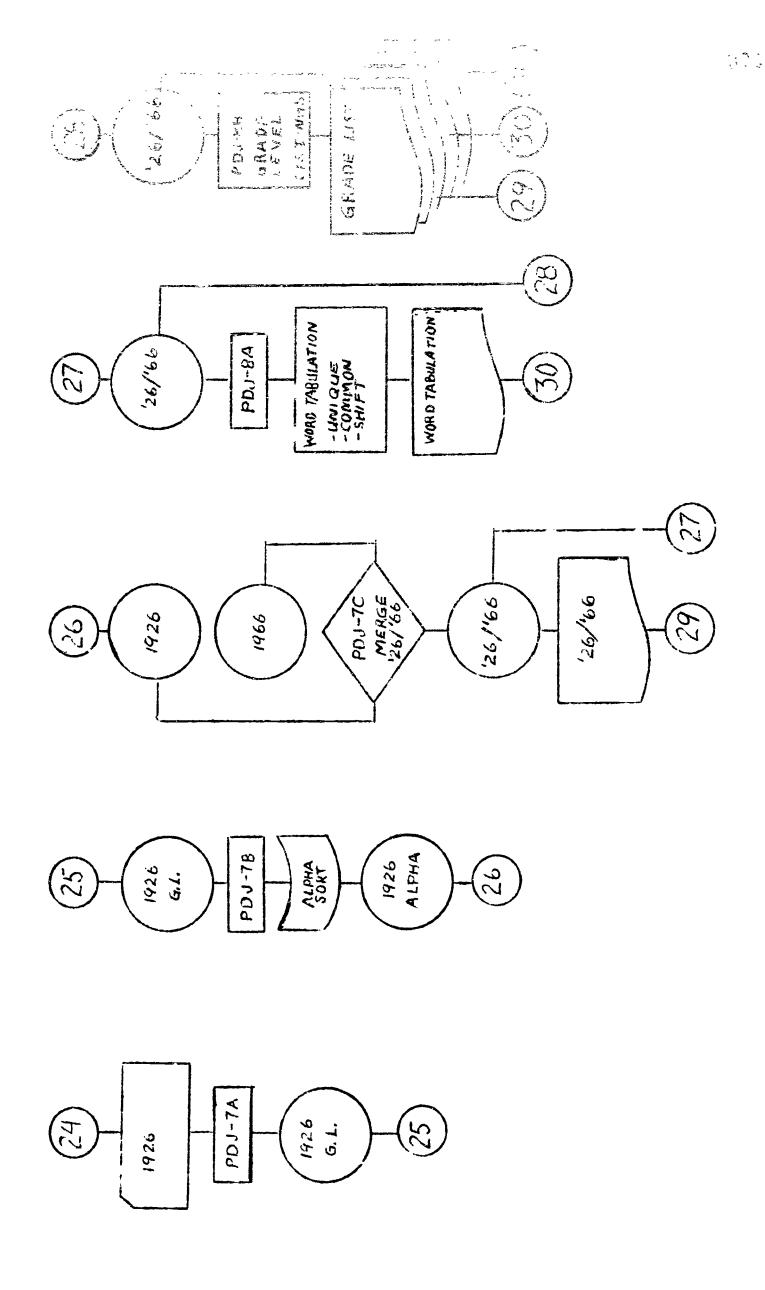
ي کو د در

ERIC Full Text Provided by ERIC



ERIC PRODUCTS FERD

A CONTRACTOR OF THE PARTY OF TH



ERIC Foulded by ERIC

明明 またい 変す かかい 一直 食っているとう

APPENDIX C

MATERIALS USED FOR THE SELECTION OF THE CRITERION FREQUENCY

ERIC -

SCHOOL OF ENGINEERS



EUGENE, () EUOSI, 4-3 telephone (code ('3) 342-1411

Dear

For almost a year we have been collecting and processing data for a replicative research project of one of Dr. Edward Dolch's original vocabulary studies. The project is being cooperatively financed by the United States Office of Education, the University of Oregon, the Oregon School Study Council, and private funds.

We are now asking for teacher evaluation and judgement of our obtained word lists.

Would you please send us a list of several teachers in your district who are considered very effective in the teaching of reading and spelling, and are now teaching in regular elementary classrooms? A letter introducing the project and requesting cooperation will be sent to those teachers whose names are randomly selected from your list.

Each teacher who is able to assist us will be sent several lists of words. The teacher will be asked to select one list he or she feels is most appropriate for the criteria we present and return a postcard indicating the selection.

Would you please send the list of teachers at your earliest convenience as we are several weeks behind schedule due to data processing delays.

FREE-ASSOCIATION VOCABULARY STUDY

fordan B. Utsey

Associate Professor

H. Donald Jacobs

Instructor

HDJ:db Enclosure



	teachers are c lare known amo	-	47	•
district as ve	ry successful	reading and	spelling	teachers:
1				

1.	



SCHOOL OF FREE STOOM

UNIVERSITY OF OREGON



EUGENE, OREGON 97403 telephone (code 503) 342-1411

C3

Dear

For almost a year we have been collecting and processing data for a replicative research project of one of Dr. Edward Dolch's original vocabulary studies. We are now asking for teacher evaluation and judgment.

Your name was randomly selected for requesting further assistance from a list of teachers identified as highly successful in the teaching of reading and spelling.

If you indicate, by the enclosed card, that you will be able to assist us, we will send you a packet containing several lists of words. After evaluating the lists, you will return a card to us indicating which list you think is most appropriate by the criteria we specify.

rlease indicate, on the enclosed card, whether you are or are not able to assist us at this time. If you are able to participate, please respond to the additional questions on the card.

Please return the post card as soon as possible. We are several weeks behind schedule due to data processing delays.

FREE-ASSOCIATION VOCABULARY STUDY

Jordan B. Utsey

Associate Professor

d. Donald Jacobs

Instructor

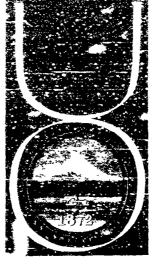
HDJ:db

Enclosure



ZOHALINA NA KOMINE

UNIVERSITY OF OPERON



telephon soff 503;342-1411

Dear Teacher,

You are one of more than one hundred teachers participating in this phase of our study. We are attempting to determine how appropriate the basic vocabulary lists are for today's children. Most of these lists' origins are vocabulary studies conducted in the 1920's. Specifically, we are replicating Dr. Edward Dolch's Free-Association Vocabulary Study.

The project is being cooperatively financed by the United States Office of Education, the University of Oregon, the Oregon School Study Council and private funds.

Under the direction of approximately 500 teachers, almost 15,000 students from grades two through eight wrote all the words that came to mind during fifteen minutes. Because of costs, only the data from grades two through six are being treated at this time.

Included in this packet are several different word lists and a ballot post card.

Carefully read and compare the different word lists. Without consulting other individuals, select the list that you feel, without any modification, best fits the description below:

This list illustrates the typical vocabulary growth in reading and spelling of most of the students at this grade level; although not necessarily of the group I have this year.



Page 2

Record the selection you make on the ballot postcard and return it to us as soon as possible. You may keep the word lists.

Thank ou very much for your time and effort. Results of this study will be available chrough the Oregon School Study Council, School of Education, University of Oregon, some time after next September.

FREE-ASSOCIATION VOCABULARY STUDY

Jordan B. Utsey

Associate Professor

H. Donald Jacobs

Instructor

HDJ:db

Enclosures: Word Lists

Instruction Sheets
Ballot Postcard

TEACHERS' RESPONSE CARDS

MR. John Longview	Doe School Wist	3 trict
	Washington	

I (am) am not) able to assist in the research project. Grade level teaching: 3. Years.

I have been teaching this grade for years.

I (am) am not) a member of International Reading Association, or some other professional organization concerned with reading.

Miss Jane Smith -4
Forest Hills Elementary
Lake Oswego Public Schools
Lake Oswego, Oregon 97034

I have chosen list ____ as most appropriate for the listed criteria.

APPENDIX D FORMULAS USED IN DATA ANALYSIS

ERIC ___

FORMULAS USED IN DATA ANALYSIS

1. Correlation by raw score, ungrouped data

$$\Gamma = \frac{N\Sigma XY - \Sigma X \Sigma Y}{\sqrt{[N\Sigma X^2 - (\Sigma X)^2][N\Sigma Y^2 - (\Sigma Y)^2]}}$$

2. Critical Ratios of the percents of unique words

Percent of unique words

Standard error of the percent

3. Critical Ratios of the percents of grade placement shift

$$6E_{D%} = \sqrt{PQ(\frac{1}{N_1} + \frac{1}{N_2})}$$

$$P = \frac{N_1 P_1 + N_2 P_2}{N_1 + N_2}$$

Computation follows same procedures as in #2.

Critical Ratio of the difference of percents

Standard error of the difference of percents

Pooled estimate of P

$$Q = (1 - P)$$

4. Mean by grouped frequency true, had fire and Assimilar Near

5. Median by grouped frequency interval data

$$Md = \sqrt{\frac{N}{2} - F}$$

6. Standard deviation by grouped frequency interval data

s.D. =
$$i\sqrt{\frac{\Sigma f x^2}{N} - \frac{(\Sigma f x')^2}{N}}$$

7. Skewness by percentiles

$$St = \frac{(P_{so} + P_{to})}{2} - P_{eg}$$

8. Kurtosis by quartiles and percentiles

$$Ku = \frac{Q}{P_{90} - P_{10}}$$

$$Q = \frac{Q_3 - Q_1}{2}$$

D. - standard deviation - lower limit of interval

Henry E. Garrett, Statistics in Psychology and Education (New York: David McKay Company, Inc., 1958), pp. 30-38, 49-53, 143, 197, 235-236.

APPENDIX E

1966 FREE-ASSOCIATION WORD LIST: GRADE LEVELS

ERIC Full Text Provided by ERIC

1966 FREE-ASSOCIATION WORD LIST GRADE LEVELS

GRADE ADDITION ADDITION ADVENTURE AGE AID ALOT ALPHABET APE ARITHMETIG BAR BARK BASE BASIC BATTER BAY BEANSTALK BEAVER BECOME BECOME BEER BEWARE BEYOND BIO BINGO BLANK BLEND BLINK BLOWN BOBCAT BOIL BOLL BOOTH ANKE SORE SOWNOW BRAG SRAIN BRAT BRIDE BROOK BROW BUCK BUDDY BULL BUSINESS BUZZ CAPITAL CAST CELL CHAIRMAN CHARACTER CHART CHECK CHECKER

CHIN

CHIPMUNK CHOIR CHOKE CHOW

CITIZEN CLAM CLANK

CLAW CLEANER CLIP CLOD

CLUE COAST COOE COKE

COP CORD CORE COT CRAM

CRASH

CUB DART

CRAYOLA GREW

CROCODILE

COLT COMIC COMPLETE COOKY

600

GRAND GRATE GRAVE

GREET

GRILL GRIN GROUP

GROWN GRDWTH GULF

HATL

DAWN DEED DELL DEN DESERT DEW DIM DIP DITTO DIVE DOLLHOUSE DOME DOSE DRAGDN DRIP DUG DUKE DULL DUN EIGHTY ENJUY ELK ELF ERRAND EXERCISE EXPLORE EXPRESS EXTRA FACT FACE FAIL FAITH FAKE FAME FAREWELL FAY FEAR FEMALE FIFTH FIFTH FIG FILE FILM FIN FIR FIREMEN FIST FIST FIVE FLAKE FLAME FLASH FLIGHT FLIMG FLIP FLOAT FLU. FOG FOOL ISH FORE FOREST FORM FORT FOURTH FRAME FREE FRIENDLY FRIGHT FROWN FRY FUSS GAY GHOST GIG GILL GINGER GLOAL GOAL

HAM HAMBURGER YUNDH HAPPEN HAPPINESS HARM HATCH HEALTH HEAT HEATER HEAVEN HEIGHT HELL HELPFUL HERG HIKE HIP HIP LEPPOPOTANUS HIVE HOBBY HOG HOLIDAY HOLY HOLY HOLLY HOST HOSTESS HDUR HUG HUGE HUM HUMMINGBIRD HUMP HUSH HUT HUT
ILL
IMPORTANT
INCH
INCLINE
INITIAL
INK
INSECT INTEREST ISLAND JACKET JAM JEEP JET JOIN JOKE JOLLY JOKE JUNGLE KEEPER KILLDEFR KIN KIT LACK LAD LADYBUG LAG LAME LAMP LAME LANGUAGE LANGUAL LATER LATTER LEAW LEAN LEAP LEO LEND

LENT

LIME

LIST LITTER LOCKET

LOCKET LORD LOSE LOUSE LUCKY LUMP HACH MAGIC MAGNET

MAIN MALE MALL MALT

MA 'A MAMMAL MANAGER MANE MANNER MAP MAP MARE MARRY MASH MASK MAST MASTER MAT MATE MATERIAL MATH MEMBER MEMORY MEND MENU METAL METER HEW MI MIRROR MISTER MITT MITTEN MOLE MOM MCMMY MONSTER MOUR MOUSE MCP MORE MOSS MOTH MOVIE MOW MUG MUNCH MURDER MUSEUM MUSH MUTT NAG NARRDW NATURE NAVY NAY NEAT NEAT NEGATIVE NET NEWS NINETY NINTH NIT NOOK O-CLOCK DREY OCTUPUS UNBIT DRDER THE DSTRICH OME OXEN CX PAD PAIN PALE PALE PALE PALE PALE PANE PAW Paylgad PEPPER PERIOD PET PETAL

PHUNE PHONICS

PILL PINE PINT

PITCHER

PLASTIC

SNAP

SOLL

P. AYHATE PLUG POEM PUETRY POLL POOL POSITIVE POWER PRAY PREVENT PRICE PROSLEM PUFF DIID PUZZLE CUEER QUESTION RABIES RACCOON RAFT RAIL RAM RANGE RAP RATE RATTLE RE READER REDWOOD REED RENT REPORT RICE RIO RIODLE RIP ROB ROCKET ROOK ROOT ROT RULE RULER RUST SAD SAFE SAG SALE SAP SCAT SCIENCE SCOUT SCREAM SEAGULL SEAL SEASHORE SECRETARY SEEK SENSF SEMTENCE SEPAL SEVENTH SEVENTY SHACK SHADE SHAME SHARE SHARK SHEAR SHOCK SHOOK SHORE SHOUT SHOWER SHY SIGH SIGHT SILLY SIN SINCE SINCERELY SIP SIXTH SIXTY SKUNK SLACK SLOT SLY SMARI SMOKEY SNACK

SOLVE SOMEDAY SOMEDNE SON SOX SPARE SPARE SPICE SPIKE SPET SPOOK SPOOKY CODRT SFY STABLE STAFF STAKE STALL STAMEN STARFISH STATE STEEL STOCK STREAM STUDENT STUDY STUMP STUPLO SUB SUNG SUPER SYSIEM TABLET TACK TADPOLE TALE TALENT TAME TANG TAPE TAR TATTLE IENTH PEXTURE THEE THERD THONG THORAX THUMP THY TICK TIDE TINT TISSUE TOAD TON TOW TOWARD TRAFFIC TRAIL TRAP TRAVEL TRE TREAT TRESS TRIP てべつりて TUME THENTY-FIVE THENTY-FOUR TIENTY-FOUR
TWENTY-ONE
TWENTY-SEVEN
TWENTY-SIX
TWENTY-THREE
TWENTY-TWO
UGLY
UNHAPPY
UNIT UNITE VAN VICE VILLAGE VOICE VOICE VOWEL WADE WAG WARE

١..

a-EE≺+ •	r	UISCENTENT	så40c1.	Jul F 2 8 3 5	2100 2100
3E%	CARNOT	CICCOVER	GARDNER GEAR	LICNE LICHESTHE	POLKADOT
WHALE WHIP	CANON CANFOR	DISLIKE DISLIKE	5E#	1.008	20001.č
WIFE	CAPITOL	DISTANCE	GE ÆKÆL	L007 L0P	POOH POPCUPINE
alg algglf	GRAVAM Carnival	91412 1 C+	GENTLE GEOGRAPAY	LOPE	PORK
WINK	CARTON	DODGE	GIN	LUG	90kī Pose
WIRNER	CARTON	DOE	GTVEN GLIDE	LUNCHBOX LUNCHPAIL	POSSIBLE
AISE WOMEN	CASH Catalog	00GH0USE 0004	GLOS	LUNG	POSTER PRACTICE
*ONDERFUL	CATFISH	DOPE	GLORY Glow	MAM Marine	PRAIRIE
WORKBOOK X-RAY	LATTLE CEMETERY	DOUBT Dragster	GOLDFISH	MARKER	PRANCE
YELL	CEREAL	DRYCE	50008Y	MASS	PREACHER
ZEBRA Zero	CHALKBOARD Charge	DYANK PROAE	GCODBYE GRAD	₩ A₩ R OYA H	PRINCE
£19	CHAT	30030	GRADER	MEAL	PRINCESS PRODUCT
GRADE	CHATTER	YMMUO	GRANDSON Grandstand	MEANT Medium	PROGRAM
	CHEAT CHEEK	DUNK DURING	GRANS	HEMORIAL	PRONOUN PROOFREAD
3	CHEMISTRY	DUSK	GREY	MERE MESSENGER	PROTECT
_	CHILL CHIME	DUSTER DUSTY	GRINO	MESSY	PRUNE
ABLE ACE	CHTAPANZFE	DUTY	GRIP	metropolitan	PULP PUPIL
ACTION	CHOCK Choice	EARN Eoltion	GROOM Guard	MILLION Mink	PUPPET
ADULT AGENT	CIGAR	EEL	GUINEAPIG	MINT	PURE PURR
MIA	CITIZENSHIP	EIGHTH Elbow	GU!YAR Gut	HISTORSE	QUART
AIRPORT Alarm	CLASSROOM CLICK	ELECTRIC	HABIT	MISTRESS HITE	QUICKLY
AMPHIBLAN	CLIFF	ELM	HAG Hack	MIXTURE	QUOTIENT
ANAGRAM Antelüpe	CLOUDY COACH	EMERALO ENCYCLOPEDIA	HAIRBAND	MGAN MOAT	RADAR
ANTENNA	COB	ENTEP	HAMSTER	BILE	RAGE RAID
ANYHOW	COEK	EQUAL EQUIPPENT	HANDSOME Hanger	MOCK Model	RAISE
AMYTIME APRICOT	COO COIN	ERA	HAROBALL	MODERN	RAMP Ranger
ARK	COLLECT	EVE EVENT	HARP Hawk	MONE TOR	RASH
ARMOR Ash	COLLECTION COLUMN	EVERGREEN	HEADBAND	MUOD MORN	RECOMMEND RECORDPLAYER
ASIDE	COSBAT	EVERYTIME	HEAL Heap	MOTEL	REEL
ATMOSPHERE	COMET Comma	FWE EXCELLENT	HFLO	MOTTO MOWER	RELAY
ATOM AUTHOR	COMMON	EXPEDITION	HELICOPTER	MUFF	REPEAT Reptile
AWAKE	CCMMUNICATE COMMUNICATION	EYEBROW Eyelash	HELPLESS HERD	MULTIPLICATION MULTIPLIER	REWARD
AXLE Backward	COMMUNITY	FACIAL	ніо	MULTIPLY	RHYTHM Rioden
BAIL	COMPOUND	FACTOR" FAO	HINT Hire	MURAL	RIDER
BALD	CONCENTRATE CUNDENSATION	FAIN	HISTORY	MUSCLE Nape	RIDGE Rifle
BALLET	CONSERVATION	FALCON	HOCKFY HOLLOW	NASTY	RIG
BARO Barnyard	CONT INENT COON	FAMOUS FARE	HOMEWORK	NATION NATEONAL	RIM Rink
BASKETBALL	COPE	FASTER	HONK Hongr	NECKLACE	RISE
BASS Rast	COPPER CORRECT	FATE FAVORITE	HOOT	NICK Nithugen	RISK Roam
BATTLE	COUNTY	FAWN	.4OKROR HOTOOG	NOD	ROAR
BEAM	COURT COURTESY	FEAST FEE	HOUND	NOPE NORTANEST	ROBBER
BEARD Beast	COWGIRL	FENDER	HOUSEKEEPER	NOTEBOOK	ROBE Robot
REAUTY	CRAFT	FIB Finch	HOWL Human	NOUN	ROUGH
BECAME BEDTIME	CRAMP Crane	FINDER	HUNTER	NUMERAL Nun	ROUTE HOWBOAT
⊌ EE O	CRATE	FITNESS Flair	HUSBANO Illustrate	NUTTY	RUIN
BEETLE Begun	CRATER Credit	FLAVOR	IMPOSSIBLE	OCEANOGRAPHY 000	RUNNER Pural
BELLY	CREEP	FLAX	IMPROPER INDOORS	700R	RUT
BELDW Hirin	CREPT CRIB	FLAY FLEA	INN	OFFICER OLIVE	RYE Sadule
BLADE	CRICKET	FLEE	INTEGRITY Jack	CTAD	SAFETY
BLAME	CRIME	FLESH FLINT	JERK	OPPOSITE	SAL AMANDER
BLAST BLUNO	CROP Cruel	FLOCK	JOG MANGAROO	ORAL Crgan	SALMON Sample
BLUEGRFEN	CRUNCH	FLOUD FLOWN	KANGAROO KEEN	OUTO OOR OUTER	SANK
BLUR BDAST	CRUSADE CRUSH	FLUE	KICKBALL	OUTFIELD	SAWDUST Sawmill
8 OG	CRYSTAL	FLUFF FLUNK	KILLER Kingoom	OW	SCALE
BOLT BCMB	CUD CURE	FLUTF	KNEEL	PACF PAID	SCAR Scientist
BOND	CURS IVF	FOAM	KNOWLEOGE KNOWN	PALACE	SCISSOR
BOUKLET Borrow	CYCLF DAB	FOE FOIL	LAB	PANTHER Pappy	JCOKE SCREH
BOUND	DAILY	FOLDER	LAGËL Laburatory	PARTICULAR	SEASHELL
BOUT BOW-WOW	DAIRY	FOLK FOND	LAIR	PASSWORD	SEEP SEPARATE
BOXCAR	OAME OAME	FOREVER	LATCH	PEACE PEAL	SERVICE
BRACE Braid	DARE	FORTY-FIVE FORTY-UNE	LAVA Least	PEARL	SEX Sharpen
BRAIU	DASH Daughter	FCHWARD	LEMONADE	PEEK PENMANSHIP	SHARPENER
BRASS	DEAL	FOUL Fractijn	LIAR Liberty	PEP	SHAVE
BREEZE Briole	UEAN DEMON	FRECKLE	LIBRARIAN	PERFECT PICKER	SHANL SHIELD
BROAD	UESSERT	FREEDOM	LICE LIMB	PIKE	SHIN
BUCKLE	DEVIL	FRIGHTEN FROLIC	LIMIT	PILOT PINECONE	SHUESTRING SHOVE
BUILDER BUM	DIAL	FURRY	LINEN	PITCH	SI
BUNDLE	DICTIONARY	FUSC	LINER LINK	PIZZA Plaid	SILENT Simple
BUNK CACTUS	DIFFERENCE Dike	GADGET	LISTENER	PLANET	SINGER
CAFE	OILL	GAG GAIN	LIVER Lizaro	PLAT	SINGLE
CAFETERIA Cam	DINE Diner	GALL	LOBSTER	PLAYER Pleasant	SIS SITÉ
CAMERA	DINUSAUR	GALLERY	EOGAL EDIN	PLOP	SKILL
CAMPER	DIRECTION	GALLON		PEUCK	SKIPPER



THIRTY—STER ANTONYM CERTAIN DISTORB GANG INTESTINE THIRTY—SIX ANTONYM CERTAIN DISTOR GANG INTESTINE THIRTY—THREE ANVIL CHALLENGE DIVISOR GAP INVENT THIRTY—THREE ANVPLACE CHAMBER DIVISOR GAP INVENTION THIRTY—THO ANYPLACE CHAMBER DOGHOOD GARMENT INVENTION						
1 1 1 1 1 1 1 1 1 1	~ .dl-c	ፈ ₩ስፋ፬ξ ₈				÷#isti €
1	51 4045					
SEAT					DRAKE	
STATE		TINSEL				GENTLEMEN
STORT						GEOLOGIST
S. LOT			- · · ·	SHIMP		
STATE						
						GIRDLF
SLOPP			AWARD	CHUSBY		
SAUDY	SLOPE					
AGE					EARDRUM	
SALE				CTRCUIT		
SAME						
SHEAK			BALLOT			
		THENTY-NINE				
SOB						
SOCIAL Type						
SORGIND	SOCIAL					
SOLE-ON UNIT-FORM SATIES* OUT UNIT-FORM SATIES* SOLE-ON UNIT-FORM SATIES*					ELEVATOR	
ADDITION						
December	SCMEHOW					
SEARCH						
SORT						
	SORT					
SPEAR		y ice-president	BILLION		EVAPORATE	
SPEAR				COMPUTE		
SPEECH VOLAND ALACTID CONTESS EXCITE GROPE SPEELER WALLEN DALACTORY SPEECH VOLAND ALACTORY SPEECH WALLEY SPEECH VOLAND ALACTORY SPEECH WALLEY SPEECH WALLEY WARD BLAZE CONTESS EXPERIENT GROSS SPUECE WALLEY WARD BLAZE CONTESS EXPERIENT GROSS SPUECE WALLEY WARD BLAZE CONTESS EXPERIENT GROSS SPEECH WALLEY WARD BLAZE CONTESS EXPERIENT GROSS SPEECH WALLEY WARD BLAZE CONTESS EXPERIENT GROSS SPEECH WALLEY STARL WA		NIMATIV				
SPECIEN MAIL			BIOLOGY			
SPELLER				CONGRESS		
SPRAY HANDE BLAZE CONSTELLATION KENDOR MATERFALL		WALLET				
SPRINKLER					EXPLORER	
SPRING				CONTAINER		
STACE		WASP				
STAGE SLOUP CONTRACTION FAULTY MAIRY						HAIRPIN
STAIN WES STALK WES STALK WES STALK WES STALK WES STALK WES STALK WES BOAR COUGAR FAT STALK WES STAPL WHACK SOMPF COWAGE FEATUR HALTEN STAPL WHACK SOMPF COWAGE FIFT FIETUR HARBOR STAPL WHATEVER SOMY STAPL WHATEVER SOMY STEEP HISPER HISPER HONCKASE COUDAD FIFT-ONE HARBOR STEEP HISPER HONCKASE COUDAD FIFT-ONE HARBOR STEEP HISPER HONCKASE COUDAD FIFT-ONE HARBUS STEEP HARBOR HONCKASE COUDAD FIFT-ONE HARBUS STEEP HARBOR HONCKASE COUDAD FIFT-ONE HARBUS STEEP HARBOR HONCKASE COUDAD FIFT-ONE HARBUS STEEP HARBUS HARBUS HARBUS STEEP HARBUS HARBUS STEEP HARBUS HARBUS HARBUS STEEP HARBUS HARBUS HARBUS STEEP HARBUS HARBUS HARBUS HARBUS STEEP HARBUS H	STADIUM			CONTRACTION		
STALL IDN WEED STAPLE STALLION WEED STAPLE WHACK STARE WHATEVER STARE WHATEVER STOWN STEEP WHACK STARE WHATEVER STOWN STEEP WHACK STARE WHATEVER STEEP WHATEVER STEEP WHACK STOWN WILD STEEP WHACK STARE WHATEVER STEEV WHATEVER STOWN WILD STARY WILL STARAY WILL WILL WILL STARAY WILL WILL WILL WILL STARAY WILL						
STAPLE WHATEVER BOWSER COWER FISHER MARRIES STAPLE WHATEVER BOWSER COWER FISHER MARRIES STAPLE WHATEVER BOWSER COWER FISHER MARRIES STAPLE WHATEVER BOWSEASE RANDAD FIFT-THOM HARMFULL MARRIES WOOKASE RANDAD FIFT-THOM HAS HARF STEW ALLOW BOOKASE RANDAD FIFT-THOM HAS HARF STOWN WOOKASE RANDAD FIFT-THOM HAS HARF STOWN WOOKASE READ FILLER FIGURE HAS TE WAS HAD THOM TO THE WOOKASE TO THE WOOKASE READ FILLER FIGURE HAS TE WAS HAD THOM TO THOM THOM THOM THOM THOM THOM T				COUGAR		
STREEP HATEVER BOW COVER FIFT HAREVES STEEP HAREVES FIFT HAREVES STEEP HAREVES FIFT HAREVES						
STEP #11 SPER BOOKCASE COYOTF FIFE HARNESS STEW #1 CK BOOKCASE CRANDAD FIFTY-ONE HART STEW #1 CK BOOKCASE CRANDAD FIFTY-ONE HART STEW #1 CK BOOKCASE CRANDAD FIFTY-ONE HART STOP #1 LOCAT BOOK BOOMERANG CREATURE FIGURET HART STOP #1 LOCAT BOOK READ FILLY HERT STANK WILDLIFE BOOR CREED FILLY HERT STANK WILDLIFE BOOR CREED FILLY HERT STANK WILT BOOZE CREED FILLY HERT STANK WILT HER BOOZE CREED FILLY HERT STANK WILT HER BOOZE FILED FILLY HERT STANK WILT HERT WILT HERT STANK WILT HERT STANK WILT HERT STANK WILT HERT WI						HARMFUL
STEM AICK BOOKNOOM CRAWDAN FIFTY-THO WASH STOOP MILOCAT BOOK CREAT CREATIVE FIGURE HASTE STOOP MILOCAT BOOK CREATURE FIGURE HASTE STOOP MILOCAT BOOK CREATURE FIGURE HASTE STRAP MILOLIFE BOOR CREATURE FIGURE HASTE STRAP MILOLIFE BOOR CREATURE FIGURE HASTE STRAP MILOLIFE BOOR CREATURE FIGURE HASTE STRAP MILOLIFE BOOK CREATURE FIGURE HASTE STRAP MILOLIFE BOOK CREATURE FIGURE HASTE STRANK MINT BOOKE CREATURE FIGURE HASTE STRANK MILOCATE BOOK FIRM HELET STRANK MILOCATE FIRM HIGHSCHOOL SUBJECT WORK WORK BEACH CUCKOO FIRSTATO HISSE SUE WINK WOUND REFATHE CUCKOO FIRSTATO HISSE SUE WINK WOUND REFATHE CUCKOO FIRSTATO HISSE SUE WINK WOUND REFATHE CUCKOO FIRSTATO HOSE SUFFICIENT WORK FIRM HOOF FIRM HOOF FIRSTATO HOOKE SUMFLOWER WASTS BROTHERHOOL CUMERT FIRM HOOF HOOKE SUMSET GRADE BURNER CUCKOO FIRSTATO HOOKE SUMSET GRADE BURNER CUCKOO FIRSTATO HOOF FI	STEEP			COYOTF		
STOOD WIDOW WIDOW STRAP WILOCATE ##ATH		HICK				
STRAP STRAY VILOTIFE SOUNCE STRAY VILOTIFE STRAY STRAY VILOTIFE STRAY STRAY STRAY STRAY HORS STRA						
STREAK MINE STREAK MINE STREAK MINE STREAK MINE STREAK MINE STROKE WORKSHOEP BOYSCOUT CADOK FINALLY HENDECK STADKE WORKSHOEP BOYSCOUT CADOK FINALLY HENDECK HICCUP HIGHSCHYDEL SUMPARINE WORN WORN WORN WORN WORN WORN WORN WORN	STRAP			CREED		
STADE STADE STADE STORE ST			BOOZE			HELMET
STUNT WORKSHOP BRA SUBJECT WORN EAD? CRUST FIRERUCK HIGGUE SUBMARINE WORNY BRAVELY CUBSCOUT FIRERUCK HIGGUE SUBMARINE WORNY BRAVELY CUBSCOUT FIRERUCK HIGGENOOL SUBMERACT WORSE BREATH CUCKOO FIRSTAID HINGE SUK WOUND BREATHE CUCKOO FIRSTAID HISS SUK WOUND BREATHE CUCKOO FIRSTAID HISS SUK WOUND BREATHE CUCKOO FIRSTAID HISS SUMTRACT WORSE BREATH CUCKOO FIRSTAID HISS SUMTRACT WORKSHOP BREATHE CUCKOO FIRSTAID HISS SUMTRACT WORKSHOP BREATHE CUCKOO FIRSTAID HISS SUM REIST BROTHERHOOD CUMPER FISHERMAN HOARSE SUMICON FIRSTAID HORE SUMICON CONTROL OF THE FIRSTAID HISS SUMICON CULTURE BURNER CUSTOOM FILASHIGHT HOOP SUMPLY CUSTOOM FILASHIGHT HOOP SUMPLY CUSTOOM FILASHIGHT HOOP SUMPLY BURNER CUSTOOM FILASHIGHT HOOP SUMPLY CUSTOOM FIL		WINE WURKSHEET				
SUBPRACT WORNY WORNY WORNY WORNY WORNY WORNY WORNY WORNY BRAYELY CUCKNO FIRSTAID FIRSTAID FIRSTAID HINGE H						
SUBTRACT SUCK HOUND BREATH CUCKOR SUE WRIST SUE WRIST SUNFLOBER WRIST BROTHERHOOD CUPPER FLASHCARD HOUND BULLETINBOARD CUSTODIAN FLASHCARD HOUND BURNER CUSTODIAN FLASHLIGHT HOUND BURNER CUSTODIAN FLASHLIGHT HOUND FLICK HOUND BURNER CUSTODIAN FLASHLIGHT HOUND FLICK HOUND BURNER CUSTODIAN FLASHLIGHT HOUND FLICK HOUND BURNET CUSTODIAN FLASHLIGHT HOUND FORCE HOTROD SWANA ABBREVIATION BUSS DAYLIGHT FORCE HOTROD SWANA ACCIOENT BUSS DAYLIGHT FORCE HOTROD SWANA ACCIOENT BUSS DAYLIGHT FORMATION HORGER SWISH ACCIOENT BUSS DAYLIGHT FORMATION HORGER WYOROGEN TASK AO CABLE OEATH FORTY-FOUR HUNGER HUNGER TASK AO CABLE OEATH FORTY-FOUR HUNGER TASK AO CABLE OEATH FORTY-FOUR HUNGER TASK AO CABLE OEATH FORTY-FOUR HUNGER TASK AO CANCER DEFINE FORTY-FOUR HUNGER TASK AO CANCER DEFINE FORTY-FOUR HUNGER TASK AO CANCER DEFINE FORTY-FOUR HUNGER HUNGER TASK AO CANCER DEFINE FORTY-FOUR HUNGER HU						
SUCK SUE WRINKLE BROTHERMOOD CUPCARE FISHERMAN HOASSE SUNHLOWER SUNICHT SUP GRADE BULLETINDARD BULLETINDARD CURRENT SUSTOUM FLASHLIGHT HODP SUP SUP SUP SURF 4 BURP BURP CUTI BURP CUTI FLEET HOPPER SURF SWALLON BURP CUTI BURP CUTI FLEET HOPPER SURF SWALLON BURP CUTI BURP CUTI FLEET HOPPER SURF SWALLON BURP CUTI BURP CUTI FLEET HOPPER HORNIBLE BURP CUTI FLEET HORGE HORGE HORGE BURP CUTI FLEET HOPPER HORGE HORGE BURP CUTI FLEET HOPPER HORGE HORGE BURP CUTI FLEET HOPPER HORGE HORGE HORGE HORGE BURP CUTI FLEET HORGE HORGE HORGE HORGE HORGE BURP CUTI FORMATION HORGE HORGE HORGE HORGER HO				CUCKON		
SUMFLOWER SINK SINK SINK SINK SINK SINK SINK SINK			BREATHE			HC
SUNK SUNLEGHT CLING BULLETIN CURVE FLASHCARD HOUSE SUNSET CLING BULLETIN CURVE FLASHCARD HOUSE SUNSET CLING BULLETIN CURVE FLASH LIGHT HOUSE SURVEY CUSTODIAN FLASH FLOOR CUSTODIAN FLASH FLOOR CUSTODIAN FLASH FLOOR CUSTODIAN FLASH FLOOR CUSTODIAN						
SUND GRADE SUP SUP SUP SUP SUP SUP SUP SU				CURRENT		
SUP GRADE SURY SUP TO THE PROOF SUPPLY SUPPLY SURY SURY SURY SURY SURY SURY SURY SUR			RULLETINBOARD			
SURFO SWAN ABBREVIATION BUSHEL OALE SWAN ACCIDENT BUSS DAYLIGHT FORCE HORRIBLE HORRIVE SWISH ACCIDENT BUSS DAYLIGHT FORGIVE HORRIBLE HORRIBLE HORRIVE SWISH ACCIDENT BUSS DAYLIGHT FORGIVE HORRIBLE HORRIT HORRIBLE HORRIBL		GRADE			FLEET	
SMAM ABBREVIATION BUSHEL DALE FORCE HORSEBACK SMAM ACRE BUTLER DAYLIGHT FORGIVE HOTROD SMIFT ACCIDENT BUSS DAYLIGHT FORGIVE HOUNGER SWISH ACRE BUTLER DEAF FORTHER HUNGER SYLLABLE ACTOR BUZZARD DEALER FORTY-EIGHT HYDROGEN TART AD CABLE DEATH FORTY-EIGHT HYDROGEN TASK AD CABLE DECADE FORTY-FOUR DEAL TASK AD CABLE DECADE FORTY-FOUR DEAL TASK AD CABLE DECADE FORTY-HOW IDEAL TAY ADDEND CALK DECIDIOUS HUNTY-THREE IGNEOUS TAY ADDEND CALK DECIDIOUS HUNTY-THREE IGNEOUS TAX ADGET CAMPER DEFINE FORTY-TWO IMAGINATION TAX ADGET CAMPER DEFINE FORTY-TWO IMAGINATION TAX ADGET CAMPER DEFINE FORTY-TWO IMAGINATION TEASE AGATE CAMPER DEFINE FOURSOURRE INCREDIBLE TEASPRON AGRICULTURE CANTER DEGREE FOURSOURRE INCREDIBLE TEEN AIRCRAFT CAPSULE DEGREE FOURSOURRE INCREDIBLE TEEN AIRCRAFT CAPSULE DEGREE FRAGILE INCREDIBLE TEEN AIRCRAFT CAPSULE DEGREE FRAGILE INCREDIBLE TEEN AIRCRAFT CAPSULE DEGREE FRAGILE INCREDIBLE TEEN ALRICHT CARPURE DITERGENT FRAGILE INCREDIBLE TEELEVISION ALE CARPURE DITERGENT FRAGILE INCREDIBLE TEELEVISION ALE CARPURE DITERGENT FRAGILE INCREDIBLE TEENT ALRICHT CARPUR DICTATION FREEKY INDOOR THEMITE ALPHABETIZE CANJL DIET FREEZER INDUSTRY THERMOMETER ALTITUDE CASKET UIGEST FROMTIER INFINITY THERMOMETER ALTITUDE CASKET UIGEST FULCEUM INNER INFINITY THRY-FIVE ANGLE CAUTION UISCOVER FULL THATY-FIVE ANGLE CAN UISCOVER FULL THATY-FIVE ANGLE CAN UISCOVER FULL THATY-NINE ANUAL CELLO UISOBEY FULL THATY-NINE ANUAL CELLO UISOBEY FULL THATY-NINE ANUAL CELLO UISOBEY FULL THATY-NINE ANUAL CHALLENGE DIVER GAME INVENTION THIRTY-THORE ANTHERSTINE THIRTY-THOR ANYELGE CHANNEL DIVERS GAME INVENTION THIRTY-THE ANYELGE CHANNEL DOGGHOOD GARMENT INVENTION						
SMAM SMAN ACCIDENT BUSS DAYLIGHT FORGIVE HOTROD SMIFT ACRE BUTLER SMISH ACRE BUTLER SWISH ACTOR BUZZARU DEALER FORTUNE TART ACTOR BUZZARU DEALER FORTUNE TART ACTOR BUZZARU DEALER FORTUNE TOTAL TASK ADDEND CALK DECADE TAT ADDEND CALK DECADE TAT ADJECTIVE CALM DECADE TAX ADVERB CAMPFIRE DECIDIOUS FORTY-FIGHT HORGEN TAG TASPODN AGRICULTURE CANCER DEFINE TEASP AGRICULTURE AIRCRAFT CAPSULE DEGREE FORTY-NINE IDIOT TAUGHT TELEGRAM ALRUM CARDON ULARY FRAGILE TEEN AIRCRAFT ALRUM CARDON ULARY FRAGILE TELEGRAM ALRUM CARDON ULARY FRAGILE TELEGRAM ALRUM CARDON ULARY THATTY-THO THERMOMETER ALTITUDE CASKET UJGEST FRO THERMOMETER ALTITUDE CASKET UJGEST THERMOTION THIRTY-FIVE ANCHOR THIRTY-FIVE ANCHOR THIRTY-FIVE ANCHOR THIRTY-FIVE ANCHOR THIRTY-FIVE ANCHOR THIRTY-FIVE ANCHOR THERMOTION THIRTY-THOR ANNUAL CELLO DISOBEY FULCRUM TINTERNATION THERMOTION THIRTY-THRE THIRTY-THRE ANNUAL CHALLENGE UIVENT THERMOTION THIRTY-THRE THERMOTION THERMOTON THERMOTION THERMOTION THERMOTON THERM		4				
SMAN SMIFT ACCIDENT BUSS DAYLIGHT FORMATION WINDER SWISH ACRE BUTLER DOEAF FORMER HUNGER SYLLABLE ACTOR BUZZARU DEALER FORTY-EIGHT HUNGER SYLLABLE ACTOR BUZZARU DEALER FORTY-EIGHT HUNGER FORMER HUNGER FORMER HUNGER FORMER HUNGER FORMER HUNGER FORTY-EIGHT MYOROGEN TASK AD CABLE DECADE FORTY-FOUR TOLOT TAIGHT ADDEND CALK DECADE FORTY-FOUR TOLOT TAUGHT ADDECTIVE CALK DECADE FORTY-FOUR TOLOT TAIX ADDECTIVE CALK DECADE FORTY-FOUR TOLOT TAX ADVERB CAMPFIRE DECIDIOUS FORTY-TWO IMAGINATION TAX AGATE CAMPFIRE DEFINE FORTY-TWO IMAGINATION THAGINATION THAGINATION TELESPOON AURICULTURE CANTER DEFINE TERN AIRFORCE CAPSULE DEGREE FOUNSQUARF TORREDIALE TERN ALROACE CAPTURE DETERGENT FRASILE TORREDIALE TEEN ALROACE CAPTURE DETERGENT FRASILE TORREDIALE TELEVISION ALE CAREFULLY DICTATION FREMAX INDIGO TELEVISION ALE CARFOLLY DILFT FREMAX INDIGO TELEVISION ALE CARFOLLY DILFT FREMAX INDIGO THERMOMETER ALPHABETIZE CARVI THERMOMETER ALPHABETIZE CARVI THERMOMETER ALTITUDE CASKET UIGEST FRONTIER INFINITY THERMOMETER THERMOMETER ALTITUDE CASKET UIGEST FRONTIER INFINITY THERMOMETER THERMOMET		AUMBEUTATION		DALE		
SWISH ACTIVITY DUTTERFLIFS DEAF FORTUNE HUSK SYLLABLE ACTIVITY DUTTERFLIFS DEAF FORTUNE HUSK SYLLABLE ACTOR BUZZARU DEATH FORTY-FIGHT MYDROGEN TART ACTOR BUZZARU DEATH FORTY-FOUR 10 LA						HOWE VER
SYLLABLE ACTOR BUZZARD DEALER FORTUME HYDROGEN TART ACTOR BUZZARD DEATH FORTY-EIGHT 10EAL TART ACTOR BUZZARD DEATH FORTY-FOUR 10EAL 1010T TAX ADDENO CALK DECADE FORTY-FOUR 10IDT TAUGHT ADJECTIVE CALM DECIDE FORTY-HIRE IGNEOUS HURTY-THREE IGNEOUS HURTY-THREE IGNEOUS HURTY-THREE IGNEOUS HAGINATION TAX AGATE CAMPFIRE DEFINE FORTY-TWO IMAGINATION TAX AGATE CANCER DEFINE FORTY-TWO IMAGINATION TAX AGATE CANCER DEFINE FOURSQUAFF INCREDIBLE DETERGENT FRAGILE INPROVE CANTER DETERGENT FRANK INDIGO CARENDON UIARY FRANK INDIGO TELEGRAM ALBUM CARDON UIARY FRANK INDIGO TELEGRAM ALBUM CARDON UIARY FREMAY INDOOR TELEGRAM ALBUM CARDON UIARY FREMAY INDOOR TELEGRAM ALBUM CAREFULLY DICTATION FREEAK INDOOR TELEGRAM ALTITUDE CAREFULLY DICTATION FREEAK INDOOR TELEGRAM ALTITUDE CAREFULLY DICEST FRO INFINITY THATTHE ALTITUDE CAREFULLY DISPER FRONTIER INFURMATION THIRTY-FIVE ALUMINUM CATSUP DIPPER FRONTIER INFURMATION THIRTY-FIVE ANGHOR CATTAIL DIRECT FUDGE INFURMATION THIRTY-FIVE ANGHOR CATTAIL DIRECT FUDGE INFURMATION THIRTY-FIVE ANGHOR CATTAIL DISCOVERY FUEL INLAND THIRTY-FIVE ANGHOR CATTAIL DISCOVERY FUEL INLAND THIRTY-FOUR ANKLE CAN DISSOUSE GAIT INSTRUMENT THIRTY-FOUR ANKLE CELLO DISSOUSE GAIT INSTRUMENT THIRTY-SEVEN ANTAROPOO CENTRAL DISSOUSE GAIT INSTRUMENT THIRTY-SEVEN ANTAROPOO CENTRAL DISSOUSE GAMBLE INTERNATIONAL THIRTY-SEVEN ANTAROPOO CENTRAL DISSOURE GAMBLE INTERNATIONAL THIRTY-THRE ANYOLES CHANBER DIVERS TO THE TOTARD					FORMER	
TARK TASK ADDEND CABLE TASK ADDEND CALK DECADE FORTY-FOUR 1010T TAUGHT ADJECTIVE CALM DECIDE FORTY-FOUR 1010T TAUGHT ADJECTIVE CALM DECIDE FORTY-FOUR 1010T TAUGHT ADJECTIVE CALM DECIDE FORTY-NIME IGNEOUS FUNCTIVE IMAGINATION TAX ADVERB CAMPFIRE DECIDUOUS FUNCTY-THREE IMAGINATION TAX ADVERB CAMPFIRE DECIDE FORTY-TWD IMAGINATION TAX ADVERB CAMPFIRE DECIDE FORTY-TWD IMAGINATION TAX FORTY-FOUR IDIOT TOOLOG TAX ADJECTIVE CANCER DEFINE FORTY-FOUR FORTY-FOUR INDISTING IMAGINATION FORST IMAGINATION FORST IMAGINATION FORST IMAGINATION FORTY-FOUR IMAGINATION FORTY-FOUR IMAGINATION FORTY-FOUR IMAGINATION FORTY-FOUR IMAGINATION FORTY-FOUR INDISTING TOOLOG T	SYLLABLE			DEALER		
TAT ADDENO CALM DECIDE FORTY—NIAE IGNOUS TAUGHT ADJECTIVE CALM DECIDE FORTY—THREE IGNOUS TAX ADVERB CAMPFIRE DEFINE FORTY—TWO IMAGINATION FASSIL IMAGINATION FOSSIL IMAGINATION FOSSIL IMAGINE IMAGINATION FOSSIL IMAGINE IMAGINE FORTY—TWO IMAGINATION FOSSIL IMAGINE IMAGINE FORTY—TWO IMAGINE FORTY—FORTY—TWO IMAGINE FORTY—FORTY—TWO IMAGINE FORTY—TWO IMAGINE FORTY—FORTY—FORTY—FORTY—FORTY—TWO IMAGINE FORTY—TWO IMAGINE FORTY—T			CABLE			
TAUGHT TAX ADVERB CAMPFIRE DECIDIOUS TEASE TEASE AGATE CANCER DEFINE DEFINE TEASPOON AGRICULTURE CANTER DEFUNTION TEASPOON AIRCRAFT CAPSULE DEGREE FORTY-TWO IMAGINATION TO STILL TEE AIRFORCE CAPTURE DETERGENT TEEN ALBUM CARDON DICTATION TELEGRAM ALBUM CARDON DICTATION TELEVISION ALE CAREFULLY DICTATION TERMITE ALPHABETIZE CARJL DIFFICULT TEST ALRIGHT CARVF DIFFICULT THERMOMETER ALUMINUM CATSUP DIPPER THIRTY-EIGHT ANCHOR CATTAIL DIRECT THIRTY-FIVE ANCHOR THIRTY-FIVE ANCHOR THIRTY-FOUR ANKLE CAM THIRTY-NINE THIRTY-NINE THIRTY-ONE ANNUAL CELLO DISSOLVE GAIT THIRTY-SEVEN ANTINOM THIRTY-SEVEN ANTINOM THIRTY-SEVEN ANTINOM THIRTY-THOO ANNUAL CHANNER CHA						
TEASE AGATE CANCER DEFINE TEASPOON AGRICULTURE CANTER DEFINITION FOSSIL IMAGINE TEASPOON AGRICULTURE CAPSULE DEGREE FOURSQUARF INCREDIBLE TEE AIRFORCE CAPTURE DETERGENT FRACILE INDEX TEEN AIRFORCE CAPTURE DETERGENT FRAMK INDIGO TELEGRAM ALBUM CARBON DICTATION FREAK INDIGO TELEVISION ALE CARFULLY DICTATION FREEWAY INDUSTRIAL TERMITE ALPHABETIZE CANJL DIFF ICULT FREEZER INDUSTRIAL TEST ALRIGHT CARVF DIFF ICULT FREEZER INDUSTRY THERMOMETER ALTITUDE CASKET DIGEST FRO THIRSTY ALUMINUM CATSUP DIPPER FRONTIER INFINITY THIRTY-EIGHT ANCHOR CATTAIL DIRECT FUDGE INFURMATION THIRTY-FIVE ANGLE CAUTION DISCOVERY FUEL INLAND THIRTY-FOUR ANKLE CAM DISCOVERY FUEL INSTRUMENT THIRTY-FOUR ANKLE CAM DISCOVERY FUZZ INSTRUMENT THIRTY-NINE ANNUAL CELLO DISCOVERY FUZZ INSTRUMENT THIRTY-NINE ANNUAL CELLO DISCOVERY GAIT THIRTY-NINE ANNUAL CELLO DISCOVERY GAIT THIRTY-NINE ANNUAL CENTARY DISTRICT GAL INTERCOM THIRTY-SEVEN ANTAROPOD CENTRAL DISSOLVE GAIT THIRTY-SEVEN ANTAROPOD CENTRAL DISSOLVE GAIT THIRTY-SEVEN ANTAROPOD CENTRAL DISSOLVE GANG INTERCOM THIRTY-SEVEN ANTAROPOD CENTRAL DISSOLVE GANG INTERNATIONAL THIRTY-THREE ANVIL CHAMBER DIVISOR GAP INVENTION THIRTY-THREE ANVIL CHAMBER DIVISOR GAP THIRTY-THREE						IMAGINATION
TEASPOON AGRICULTURE CAPSULE TEE AIRCRAFT CAPSULE DETERGENT FRAGILE INCREDIBLE TEEN AIRCRAFT TELEGRAM ALBUM CARDON UIARY FRAMK INDIGO FELEVISION ALE CAREFULLY DICTATION FREEWAY INDOOR THRWITE ALPHABETIZE CARYF DIFFICULT TEST ALTITUDE CASKET UIGEST THERMOMETER ALTITUDE CASKET UIGEST THIRTY-EIGHT ANCHOR CATTAIL DIRECT THIRTY-EIGHT ANGLE CAUTION DISCOVERY THIRTY-FIVE ANKLE THIRTY-FOUR ANKLE CAM DISCOVERY FULCRUM INSPECTOR THIRTY-FOUR ANKLE CAM DISCOVERY FULZZ INSPECTOR THIRTY-NINE ANNUAL CELLO DISSOLVE GAIT INSTRUMENT THIRTY-ONE ANTAROPOD THIRTY-SEVEN ANTAROPOD CENTRAL DISSOLVE GAL INTERCAM THIRTY-SIX ANTONYM CERTAIN DISTIRB GAMALE INTERNATIONAL THIRTY-SIX ANVIL CHAUBER DIVISOR GAP INVENT		AGATE				
TEE AIRCRAFT CAPTURE DETERGENT FRACTILE INDEX TEEN AIRCRAFT CAPTURE DIARY FRANK INDIGO TELEGRAM ALBUM CARBON DICTATION FREAK INDIGO TELEVISION ALE CARPULLY DICTATION FREEWAY INDOOR TERMITE ALPHABETIZE CANJL DIEF FREEZER INDUSTRIAL TEST ALRIGHT CASKET DIGEST FRO INDUSTRY THERMOMETER ALUMINUM CATSUP DIPPER FRONTIER INFINITY THIRSTY ALUMINUM CATSUP DIPPER FRONTIER INFUNCTION THIRTY-EIGHT ANCHOR CATTAIL DIRECT FUDGE INFURMATION THIRTY-FIVE ANGLE CAUTION DISCOVERY FUEL INLAND THIRTY-FOUR ANKLE CAM DISCUSS FULCRUM INSPECTOR THIRTY-FOUR ANKLE CAM DISCOVEY FUZZ INSTRUMENT THIRTY-NINE ANNUAL CELLO DISSOLVE GAIT INSTRUMENT THIRTY-DNE ANTROPOD CENTRAL DISSOLVE GAIT INTERCOM THIRTY-DNE ANTROPOD CENTRAL DISSOLVE GAL INTERCOM THIRTY-SEVEN ANTROPOD CENTRAL DISSOLVE GAMBLE INTERCATIONAL THIRTY-SIX ANTONYM CERTAIN DISTURB GAMBLE INTERNATIONAL THIRTY-SIX ANTONYM CERTAIN DISTURB GAMBLE INTERNATIONAL THIRTY-THREE ANVIL CHAULENGE DIVER GAP INVENT THIRTY-THREE ANVIL CHAULENGE DIVISOR GAP THYENT-TWO	TEASPOON			DEGREE		
TELEGRAM TELEGRAM TELEGRAM ALBUM CARBON UTARY TELEGRAM TELEGRAM ALBUM CARBON UTARY TELEVISION ALE CARFULLY DICTATION FREAK INDIGO TREEWAY INDOOR THEWATTE ALPHABETIZE CARJL UTEF TEST ALRIGHT CASKET UTGEST THERMOMETER ALUMINUM CATSUP THIRSTY ANCHOR CATTAIL DIRECT THIRTY-EIGHT ANCHOR CATTAIL DIRECT THIRTY-FIVE ANGLE CAW UTSCUSS FULCRUM THIRTY-FOUR THIRTY-FOUR ANKLE CAW UTSCUSS TULZ THIRTY-FOUR ANKLE CAW UTSCUSS TULZ THIRTY-NINE ANNUAL CELLO UTSCUSS TULZ TINSTRUMENT THIRTY-NINE ANNUAL CELLO UTSCUSS TULCRUM TINSPECTOR THIRTY-SEVEN ANNUAL CENTURY DISTRUCT GAL TINTERCOM THIRTY-SEVEN ANTONYM CERTAIN DISTRUB GAMALE INTERNATIONAL THIRTY-SIX ANDONYM CERTAIN DISTRUB GAMALE INTERNATIONAL THIRTY-THREE ANVIL CHAULENGE DIVISOR GAP INVENT THERTY-THREE ANVIL CHAULENGE DIVISOR GAP INVENT THERTY-THREE ANVIL CHAULENGE DIVISOR GARMENT THERTY-THREE			CAPTURE			INDEX
TELEVISION ALE CARPOLLY UIET FREEMAY INDUSTRIAL TERMITE ALPHABETIZE CARJL UIET FREEZER INDUSTRIAL TERMITE ALPHABETIZE CARJL UIEST FRO INDUSTRY THERMOMETER ALPHAND CASKET UIGEST FRO INFINITY INFINITY FROM INFINITY OF FRONTIER INFINITY OF FRONTIER INFINITY OF FRONTIER INFINITY OF FRONTIER INFURMATION OF THIRTY—EIGHT ANCHOR CATTAIL DIRECT FUDGE INFURMATION OF THIRTY—FIVE ANGLE CAUTION UISCOVERY FUEL INLAND INNER OF THIRTY—FOUR ANNUAL CELO DISSOUSS FULCRUM INSPECTOR OF THIRTY—NINE ANNUAL CELO DISSOUVE GAIT INSTRUMENT OF THIRTY—ONE ANTAROPOU CENTRAL DISSOUVE GAIT INTERCOM THIRTY—SEVEN ANTER CENTURY DISTRICT GAL INTERCOM THIRTY—SEVEN ANTONYM CERTAIN DISTURB GAMBLE INTERNATIONAL THIRTY—SIX ANTONYM CERTAIN DISTRIB GAMBLE INTERNATIONAL THIRTY—THREE ANVIL CHAULENGE DIVER GANG INTESTINE INTERNATIONAL THIRTY—THREE ANVIL CHAULENGE DIVISOR GAP INVENTION OF THE ORDER TO ANY PLACE CHAUBER DIVISOR GAP INVENTION OF THE ORDER TO ANY PLACE CHAUBER DIVISOR GARMENT INVENTION OF THE ORDER TO ANY PLACE CHAUBER DIVISOR GARMENT INVENTION OF THE ORDER TO ANY PLACE CHAUBER DIVISOR GARMENT INVENTION OF THE ORDER TO ANY PLACE CHAUBER DIVISOR INVENTION OF THE ORDER TO ANY PLACE OF THE ORDER TO THE ORDER TO ANY PLACE OF THE ORDER TO THE OR					FREAK	
TERRITE TEST ALRIGHT CARVF UIGEST THERMOMETER ALITITUDE CASKET UIGEST THERMOMETER ALITITUDE CASKET UIGEST THERMOMETER ALITITUDE CATSUP THIRSTY THIRSTY ANCHOR CATTAIL DIRECT THIRTY-EIGHT ANGLE CAUTION UISCOVERY FUEL INLAND THIRTY-FIVE ANKLE CAM UISCUSS FULCRUM TINSPECTOR THIRTY-NINE THIRTY-NINE THIRTY-NINE THIRTY-NINE THIRTY-ONE THIRTY-ONE THIRTY-SVEN ANTICR THIRTY-SVEN ANTICR THIRTY-SVEN ANTICR THIRTY-SIX ANTONYM CERTAIN DISTURB GAMALE INTERNATIONAL THIRTY-THREE ANVIL CHALLENGE DIVER GAR GAR INVENT THIRTY-THREE ANVIL CHALLENGE DIVISOR GAP INVENT THERTY-TWO ANYPLACE CHAMBER DIVISOR GARMENT INVENTION	TELEVISION			DIET		
THERMOMETER ALTITUDE CASKET THERMOMETER ALUMINUM CATSUP THIRSTY ANCHOR THIRTY-EIGHT ANCHOR THIRTY-FIVE THIRTY-FIVE THIRTY-FOUR THIRTY-FOUR THIRTY-FOUR THIRTY-NINE THIRTY-NINE THIRTY-ONE THIRTY-ONE THIRTY-SEVEN THIRTY-SEVEN THIRTY-SEVEN THIRTY-SIX ANTONYM CERTAIN THIRTY-SIX ANTONYM CHALLENGE DIVER THIRTY-THREE ANVIL CHAMBER THIRTY-THREE THREE THRE			CARVF			INDUSTRY
THIRSTY ALCHINUM CATTAIL DIRECT FUDGE INFORMATION THIRTY-FIGHT ANCHOR CAUTION DISCOVERY FUEL INLAND THIRTY-FIVE ANGLE CAW DISCOUSS FULCRUM INSPECTOR THIRTY-FOUR ANKLE CELLO DISCOUSE FUZZ INSTRUMENT THIRTY-NINE ANNUAL CELLO DISSOLVE GAIT INSTRUMENT THIRTY-NINE ANTHROPOU CENTRAL DISSOLVE GAIT INTERCOM THIRTY-ONE ANTHROPOU CENTURY DISTRICT GAL INTERCOM THIRTY-SEVEN ANTONYM CERTAIN DISTURB GAMBLE INTERNATIONAL THIRTY-SIX ANTONYM CERTAIN DISTURB GANG INTESTINE THIRTY-THREE ANVIL CHALLENGE DIVER GANG INVENTION THIRTY-THREE ANVIL CHAMBER DIVISOR GAP INVENTION THIRTY-TWO ANYPLACE CHAMBER DIVISOR GAP INVENTION		ALTITUDE			FRONTIER	
THIRTY-EIGHT ANGLE CAUTION DISCOVERY FUEL INNER THIRTY-FIVE ANKLE CAM DISCUSS FULCRUM INSPECTOR THIRTY-FOUR ANKLE CELLO DISCOVER GAIT INSTRUMENT THIRTY-NINE ANNUAL CELLO DISSOLVE GAIT INSTRUMENT THIRTY-ONE ANTHROPOU CENTRAL DISSOLVE GAL INTERCOM THIRTY-SEVEN ANTLER CENTURY DISTRICT GAL INTERCOM THIRTY-SEVEN ANTONYM CERTAIN DISTURB GAMBLE INTERNATIONAL THIRTY-THREE ANVIL CHALLENGE DIVER GANG INTESTINE THIRTY-THREE ANVIL CHAMBER DIVISOR GAP INVENT THIRTY-TWO ANYPLACE CHAMBER DIGGIOOD GARMENT INVENTION	THIRSTY			DIRECT		
THIRTY-FOUR ANKLE CAM UISCUSS INSPECTOR THIRTY-FOUR ANNUAL CELLO DISCIBEY FUZZ INSTRUMENT THIRTY-NINE ANTHROPOU CENTRAL DISSOLVE GAIT INTERCOM THIRTY-ONE ANTHROPOU CENTURY DISTRICT GAL INTERCOM THIRTY-SEVEN ANTONYM CERTAIN DISTURB GAMBLE INTERNATIONAL THIRTY-SIX ANTONYM CERTAIN DISTURB GANG INTESTINE THIRTY-THREE ANVIL CHALLENGE DIVER GANG INVENT THIRTY-THREE ANVIL CHAMBER DIVISOR GAP INVENT THIRTY-TWO ANYPLACE CHAMBER DIGGIOOD GARMENT INVENTION			CAUT ION			INNER
THIRTY-NINE ANNUAL CENTRAL DISSOLVE GAIT INTERCOM THIRTY-DNE ANTHROPOD CENTURY DISTRICT GAL INTERCOM THIRTY-SEVEN ANTUER CENTURY DISTRICT GAL INTERNATIONAL THIRTY-SIX ANTONYM CERTAIN DISTRIB GAMALE INTERNATIONAL THIRTY-THREE ANVIL CHALLENGE DIVER GANG INTESTINE THIRTY-THREE ANVIL CHAMBER DIVISOR GAP INVENT THIRTY-TWO ANYPLACE CHAMBER DIGGODD GARMENT INVENTION		ANKLE				
THIRTY-DNE ANTIER CENTURY DISTRICT GAL INTERNATIONAL THIRTY-SEVEN ANTIER CERTAIN DISTURB GAMBLE INTERNATIONAL CERTAIN DISTURB GANG INTESTINE THIRTY-THREE ANVIL CHALLENGE DIVER GAP INVENT THIRTY-TWO ANYPLACE CHAMBER DIVISOR GAP INVENT INVENTION THIRTY-TWO ANYPLACE CHAMBER DIGWOOD GARMENT INVENTION THE PERBASE	THIRTY-NINE			DISSOLVE		
THIRTY—STER ANTONYM CERTAIN DISTORB GANG INTESTINE THIRTY—SIX ANTONYM CERTAIN DISTOR GANG INTESTINE THIRTY—THREE ANVIL CHALLENGE DIVISOR GAP INVENT THIRTY—THREE ANVPLACE CHAMBER DIVISOR GAP INVENTION THIRTY—THO ANYPLACE CHAMBER DOGHOOD GARMENT INVENTION			CENTURY			INTERNATIONAL
THIRTY-THREE ANVIL CHAMBER DIVISOR GAP INVENT THIRTY-TWO ANYPLACE CHAMBER DIGWOOD GARMENT INVENTION THIRTY-TWO ANYPLACE CHAMBE DOGWOOD GARMENT INVENTED THAT THE PERBATE		ANTONYM				INTESTINE
THE	THIRTY-THREE			DIVISOR		
THROA: ANYWHERE UNLPHIN GATHER INVERSEDRATE		ANYWHERE	CHANNEL		GARMENT GATHER	INVERTEBRATE



TTCH TTE4 JAZZ JEAMS JEAMS JEMEL JOSKEY JOINT JOKER JOURNEY JUDGE JUMPER JUMPER JUMPLOPE JUMCTION	MOUTH MUM MUMALE MUM MUS MUS MUS MUS MUS MUS MUS MUS MUS	PACHOLIPAL ORING ADVA DAN DAN DAN DAN LARGE - JRAN LORG DORG DORG DORG DORG DORG DORG DORG D	SET" SE+", " au Syallow	SYRUF Syruf Taffy Talker	ARENCH HRIT HRITER
JEAHS JEMEL JOCKEY JOINT JOKER JOURNEY JUDGE JUMPER JUMPROPL JUNCTION	MUMBLE 제 여박 소니 - > MUSHROC HUSKRAT	GRISON Spiyate - JBABL/	ئا ہـ	TAFFY	WRITER
JEMEL JOCKEY JOINT JOKER JOURNEY JUDGE JUMPER JUMPROPL JUNCTION	ৣঀৣ৴ৣঽ MUSHROC MUSKRAT	- JBASE /	SMALLOW	TALKED	
JOCKEY JOINT JOKER JOURNEY JUDGE JUMPER JUMPKOPE JUMCTION	MUSHROC HUSKRAT				HIL TIFM
JOKER JOURNEY JUDGE JUMPER JUMPROPE JUNGTION	HUSKRAT		SHANK SHEER	TALLER Tarf	YAM Yipe
JOURNEY JUDGE JUMPER JUMPKOPE JUNKTION	MUSTANG	PRODUCTION	SHEL VE	TARGET	YOUTH
JUMPER JUMPHOPE JUNCTION	MUSTARD	PROJECT PROJECTOR	SPERIFF	TEAPOT	216246
JUMPROPE JUNCTION	MYSTERY	PROMISE	SHIFT SHINGLE	TELNAGER Telegraph	ZIP:
JUNCTION	NATIVE	PRONOUNCE	SHOELAGE	TELESCOPE	GRADE
	NATURAL Nectar	PRODF PROTON	SHUNE	TEMPERATURE	
JUNIOR JUSTICE	NEPHEW	PROVO	SHORTS Shorn	TENDER	5
KIUNEY	NERVE	PROVE PROVIDE	SHRIMP	TERRITORY	ABHREVI ATE
KILN	NEMYOUS NETHORK	PUBL I C	SHRUA Shut∻up	TEKKOR TETHERBALL	ASSLITY ACCENT
KINDLY KINDNESS	NETTRON	PUBLISH PUDDING	SHUTTER	TEXT	ACCORDICN
KNIVE	NIBOLE VIECE	PULLEY	SICKNESS	THAW Theater	ACIU
LABUR Lance	NIGH	PUN	SIDEWAYS SIGNATURE	THEME	ACROBAT ACTRESS
LARO	NURTHEAST	PUNT PUTT	SILVERWARE	THIER	ACTUAL
LASH	NORTICE	PUTTY	SITTER SKELETON	THIGH THORN	ACUTE Adjust
LASS Lather	NOWHERE	QUALLTY	SKETCH	THOUGHTFUL	ADJUSTME
LATITUDE	NUGGET NUMB	QUIETLY	SXI) SLANG	THRILL THRONE	ADMIRE
LAUGHTER Lavatory	NYLON	RACER	SLAVE	THRONE THRUWN	ADDRE AERIAL
LAVE	CRJECT	RACKET RAULY	SLENDER	T1C T10Y	AFFECT
LAWNMOWER Lawyer	DKAY DPERA	RANK	SLICK Sliver	TICR	AFTERWARD AGENCY
LEASH	DPERATION	RAPE RARE	SLOMIA	TILT Timer	AGREE
LEDGE	ORALLY Otter	RASPBERRY	SLUMBER SLUSH	TIMID	AIRLINE AIRMAIL
LEF LEFR	OUNCE	RATTLESNAKE	SMEAR	TINGLE Tinker	AISLE
LEOPARO	DUTF1T DVAL	RAVE REAR	SMOCK	TOASTER	ALC OHOL
LEST LEVEL	DVARF	RECORDER	SNAG Snappy	TOBACCO Tog	ALFALFA Algae
LIGHTEN	OXYGEN	RECREATION RECTANGLE	SNARE	TOLL	ALLOW
LIGHTHOUSE	OYSTER Panel	REFERENCE	SNIFF SNOB	TOM3	ALMOND 4LOUD
LIMESTOME LIPSTICK	PAPERTOWEL	REFRIGERATOR Rein	SNORE	TOMCAT TOME	ALT HOUGH
L19010	PAR Faragraph	RELATION	SNOUT SNUG	TONG	ALTO ALTOGETHER
LIVINGRODY Llama	≠AKAKEET	RFLATIVE REMAINDER	SOCCER	TONSIL TOSS	ALWAY
LOAN	PARE PATIO	REMIND	SUCIALSTUDIES SOCKET	TOTAL	AMBER Ameba
LOCATION LOUGE	PATRUL	REPRESENTATIVE REPUBLIC	SOFTLY	TRASHCAN Trefhouse	AMDNG
LOGGER	PAVEMENT PEACOCK	RESEARCH	SOL Solar	TRILLION	AMOUNT AMPLIFIER
LONELY	PEAK	RESISTANCE RESOURCE	SOL 10	TRIPLE Trombone	ANATOMY
LUNGITUGE LUUK DUT	PEANUT-BUITER PFAT	RESPECT	SOMEWHAT Sot	TROUSER	ANCIENT ANGER
L 004	PEBBLE	RESPONSIBILITY RETURN	SOUGHT	TRULY TUMBLE	ANNUUNCEMENT
LOUN LORE	PEDAL PEER	KEVIEW	SOUL SOUTHEAST	TURQUOISE	ANTEATER Anther
LOSS LUTION	PELT	KHUBARB RHYME	SCUTHERST	TWENTY-EIGHT	ANX LOUS
LOUDSPEAKER	PENGUIN PENJUIN	RIB	SOWN	TWINE	APPEAR Applesauce
LOVER	PERCH	RIND	SPAT SPENO	TWIRE UNDRESS	APPLY
LOWER LYE	PERHAPS PEST	RITE ROCKY	SPENT	UNLIKE	APPRECIATE ARCH
MAGMA	PHANTOM	RODEO	SPINE Spiral	UNTO UNUSUAL	ARENA
MAKEUP Management	PHEASANT	ROLE KOMP	SPLAT	UPSTATR	ARĞUE Arrange
MANTLE	PHYSICAL PICKUP	KOTATE	SPLIT Spotlight	USUALLY VACUUM	ARTERY
MARGIN MAROON	PIGLET	ROUT ROVER	SPKUCE	VAIN	ARTICLE ARTIFICIAL
MARRIAGE	PIGTAIL PINETREE	ROYAL	SPUN Stale	VALUE VAPPIRE	ART1ST1C
rAKStrALLAI MASCOT	PINTO	RUBY RUDE	STAPLER	VANF	ASHTRAY Asphalt
MATHEMATICS	PIONEER PIP	RUFFLF	STARCH Starve	PEPAR	ASSEMBL V
maze Mbauwi-lahk	PLANK	RUM	STATUE	VAST VEIN	ASTONISH ASTRONOMY
MFDAL	PLANYATION PLASTER	RUMBLE RUMP	STEADY Steelhfad	VENFER	ATOMIC
MEEK	PLATFORM	RUNT	STERN	VENT VENTURE	ATTENDANCE ATTENTION
MELODY MERCURY	PLATINUM PLAYFUL	RUSH RUSTY	STINGRAY	VENTEBRATE	AUD ITORIUM
MESS AGE	PLAYTIMF	SAGE	STIRRUP STOLEN	VEST VIOLA	AUTOBTIGRAPHY AUTOMATIC
METAMORPHIC Meteor	PLF0GE	SAINT Sanddau ar	STORK	VGL T	AVERAGE
METHOD	PLENTY PLOT	SANDLE	STOUT Strain	VOLUMF VOYAGE	AYE
MICZOPHONE Mickuscope	PLY	SANDSTONE SANJY	STRAIT	WAD	DABYSITTER BACK CROUND
MICHOSCOPE	PLY#000 POU	SASH	STRANGE Stranger	WALE Walker	BACTERTA
#10GET	POET	SCARF SCARY	STRENGTH	WALTZ	BADE Balance
MIUNIGHT MILKSHAKE	POKER Policemen	SCENE	STUD STUDIO	WASHER Wastedasket	BALCONY
MILLER	POLKA	SCENT SCHEDULE	STURDY	WEAVER	ODEKAF Tidnae
MINER Mineral	POLLEN POMPUM	SCIENTIFIC	SUBTRACTION Surway	WEDGE WEEKEND	BARELY
MINDR	FONYTAIL	SCOLO SCOOP	SUDJEN	WESTERN	BAROMETER Japkox
MINUS MISSILE	POPE POPPER	SCOOT	SUDJENLY SUFFER	mmertver mmirl	BASIN BATCH
41551DN	PUPPA	SCOPE SCREWDRIVER	SUFFIX	#HISKEY	BAUXITE
MISTY MOB	POPSICLE POPULAR	SEAHDRSE	SUMMIT Sunglass	MISEFA Misefa	BEATER BEDSPREAD
MOIST	POPULATION	SEAM SEASTDE	SUNGLASS SUNRISE	MIL	BEEHIVE
MOLAR MOLECULE	PORE PORPOISE	SEAWEED	SURELY	WITHIN Wizard	REGGAR REHOLD
MULL	POUCH	SEDIMENTARY See-Sam	SURFACF SURFBOARD	WCE	BENEATH
MOONLIGHT MOPE	POULTRY POUT	SELFISH	SHEETHEART	MOGDCHUCK	BERET Bewitch
MUTORCYCLE	PRIOL	SENATE	SWINGSET	MORKER	BILLFOLD
				WORST WORTH	



BINDER	1 JRTR33UTE	EMERGERC -	SOTTES	. १४७E.	C253T
310GRAPH- BITTEN	CONTROL CONVERSATION	ENCLUSE ENDANGER	23.4166.210	1 [N* 1 _ QUDa	1√F PEC 8h
BLADCER	CC' NBKEAD	EMGAGE	HAIRCU!	1 I TERATURE	0E)JLE
LAM BLOCKADE	CORNET	FUUKNOOS	hamper Handbag	7.1AE1.A	⊅EDDLE⊀ PENINSULA
BLUT	CORONE' LORRECTION	ENTRANCE ENVIRONMENT	HARDY	EDBBY ESCATE	PERCENT
ALUBBER	CORRECTLY	ENVY	HARK HARMONICS	1571	PERFORM PERFORMANCE
90A B088YPIN	COSTUME COUNCIL	ESPECIALLY	HARMO LY	I DUNGE LOYAL	PERIMETER
BOLOGNA	COLY	ESSAY	HAUNT	FURE	PERMISSION
BOOKSHELF EDOSTER	CRANKSHAFT Erape	EVIL EXAMINATION	HAW HEADACHE	MACHINEGUN Madam	PERSONAL PERSONALITY
BORDER	SREAK	FXAMINE	HEADLIGHT	MAGNIFICENT	PETROLEUM
BOUGH	CREATE	EXCITHMENT EXCLAIM	HEARTY HEAVE	MATUEN	PHASE PHONOGRAPH
BOWEL Bravery	CREEPY CREPE	EXCLAMATION	HELIUM	MAJOR Manage	PHOTO
BRIEF	CRIMINAL	EXHAUST Expert	F" HISPHERE HERMIT	MANSIC'	PHOTOGRAPH PHOTOS.NTHESIS
BRIG Bri4	CROSSWALK Crduch	EXPLAIN	HERRING	MANUFACTURE Margarine	PHRASE
BROTH	CRUDE	EXPLANATION	HIGHLAND	MARIGOLD	PICK-UP PICKET
BRUISF Brunette	CRUISE CUBBYHOLE	EXPLOSION EXPLOSIVE	HILLSIDE HOARD	MARROW	PIER
BUFF	CUFF	EXPORT	ново	MARSH Marshal	PIERCE Pigpen
BULLDOZER BUMBLE	CUL TURE	EXTINCT Syeball	HOLSTER Homely	MASCUL INE	PIMPLE
BUMPER	CUPID CURB	FABULOUS	HOMER	MATURE MATURITY	PINGPONG PIR 2
BUNPY	CURO	FAG FALLOUT	HUMERUN HONESTY	MEÁÖ P SÁGLAS	PISTUN
BUNT BURY	CURSE CUTOFF	FANNY	HORIZON	MEASUREMENT	PIXIE PLAMTER
BUTT	CYLINDER	FANTASTIC FARMHOUSE	HORIZONTAL HORYONE	MECHANICAL Mellow	I I FAU
BUZZER Cad	DAINTY Damage	FASCINATE	HORRID	MELON	⊬L€A PLE4D
CAODY	DANGEROUS	FASHION Fathom	HOTLUNCH	MEMBRANE	PLEASURE
CALYX Campus	DATA Davenport	FAULT	HOWDY HUB	MENTAL MERCY	PLCAT Plumber
CAMPUS	DAZE	FAVOR	HUE	MERIDIAN	PLUMBER
CANISTER	DEADLY	FEELING FERTILIZER	HULL HURRICANE	MERMAID Bicrobe	PLUNGE
CANNERY Canteen	DEBT DECIMAL	FETCH	HUSTLE	410	PLURAL Pointer
CARBURETOR	DECLARE	FEVER FIELDTRIP	HYDRUELECTRIC	MIGHTY Clim	POISONOAK
CARGO Carp	DEFENSE DELICIOUS	FIENO	HYDROMETER Hydruplane	MILKY	POLAR POLITICAL
CARPORT	DEL IGHT	FIERCE FIGHTER	HYMN	MILLIMEYER Minister	PUL I. IWOG
CASHEW Caveman	DEL IVER	FILAMENT	ICEBOX ICESKATE	MIRACLE	PORKEHOP
CELEBRATE	DELTA DEMAND	FILTER	ICY	MISCELLANEOUS MISCHIEF	PORTRALT POSITION
GENTIMETER	DENOMINATOR	FIREBALL Firecracker	ID IDENTIFY	MISERY MUNUMENT	POSSIBLY
CHAMP CHAMPION	DENSE DEPENO	FISHBOWL	1010T1C	MORAL	POSTAGE Post-card
CHAP	DEPOSIT	FISHINGPOLE Flak	1 GL 30	MOTION MOVEMENT	POSTSCRIPT
CHAR Charity	DEPTH DERBY	FLAMMABLE	IMP IMPORT	MOVIESTAR	POSTURE POTASH
CHEERFUL	DESCRIBE	FLANK Flipper	INCLUDE	MUSICAL Musician	POTTERY
CHEF CHEMICAL	DESTRE DESTROY	FLIRT	INCUBATOR INDEED	# OKET	POWERFUL PRAISE
CHICKENPOX	DESTROYER	FLOUNDER FLUFFY	INCENT	MYTH Naught	PRANK
CHISEL CHLDROPHYŁL	DESTRUCTION	+LUID	I NUE PENUENCE I NUE PENDENT	NEATNESS	PREACH PRECIOUS
CHORUS	DETAIL DIAGRAM	FLUNG	INFANT	NEE NEIGH	PREDICATE
CHOSE Chum	DIAMETER	FLUSH Flutter	INFORM	NEIGHBORHOOD	PREPARE
CINDER	DIAPER DIESEL	FOCUS	INJURE Insane	NEGY NONFICTION	PREVENTION PROCESS
CINNAMON	UIFFER	FORO FOREHEAD	INSTANT	NORMAL	PROCLAIM Professor
CIVIL	DIN DIOXIDE	FOREIGN	INSTRUCTION INSURANCE	NOSEY	PROGRESS
CLAIM	DISAPPEAR	FORELOCK FORLORN	INTELLIGENT	NUSTRIL	PROP PROPER
ČLAN Clash	DISC DISEASE	FOUNDATION	* ITEND INTERROGATIVE	NOVEL NUCLEAR	PROPERTY
CLATTER	DISHWASHER	FOWL FRICTION	TODINE	NUME RATOR	PROSPECT Projection
GLEAVER CLERK	DISMISS	FRIENDSHIP	ISLE ISSUE	OELONG 080E	PROTRACTOR
CLIMATE	DISMISSAL DISPLAY	FRONTWARD	IVORY	CBTUSE	PROVINCE PSYCHOLOGY
CLING CLINIC	DISPOSAL	FROSTY Fully	JACK-IN-THE-BOX JACKASS	OCCUPATION OFFER	PUMICE
CLIPBOARO	UISTRESS DISTRIBUTE	FUMBLE FUND	JACKKNIFE	OFFICIAL	PUNCTUATION PUNK
CLOG CLOP	DISTRIBUTOR	FUND FUNERAL	JACKRABBIT	GMIT GNWARD	PURPOSE
CLOTHING	01224 0300FE	FUNGI GAR	JAGUAR Jewelry	OPENING	PYRAMID Quartz
CLOVE Clump	DOORBELL	GAB Galaxy	JINGLE	OPERATE OPERATOR	QUOTATION
CTUAZA	DOORWAY DUWNSTAIKS	GALE	TUALOF TUX	ORCHARD	QUOTE RADIATION
CLUTCH Cobbler	DUTE	GALLEY Gargle	JUD 3	URCHID	RADIUN
COBRA	PRAFT DRAGONFLY	GASP GENEROUS	JUGGLF JUMBS	OROERLY Organize	RAFTER Raindrop
COCDON CODFISH	DRAHA	GLACIER	JURY	NAPHAN	RAPIO
COIL	DRAPERY Dray	GLADE Gland	KAYAK KELP	OUTLAW OUTLET	RAVEN Rayon
COLLIE	DRIFT	GLITTER	KERNEL	OUTL INF	RAZOR
COLON COLONEL	DRIVEWAY	GLUAT	× ESCHUP KINK	UVEROUE UVERHEAD	REACTION REACTOR
COLORFUL	ORCOP ORYCELL	GOLFBALL GOOD-BYE	KNOCKLE	DVULF	RECEIVE
COMBINE COMFORTABLE	DUCHESS	GOPHER	LAIN LANGLIP	OWNER PACKET	RECHEAD REEF
COMMAND	DUOE DUMPLING	GORGEOUS GOURD	LAUNGH	PAINTBRUSH	REFLECT
CUMPASS Compete	UWELL	GOVERNOR	LEACH LEAUUF	PAJAMA Damossi et	REFRESH
CCMPOSE	EAGER EARTHQUAKE	GRANITE Graph	& FASE	PAMPHLET Pap	REGION REGISTER
CONCERN CONCERT	EATER	GREEDY	LEGEND LEGISLATURE	PAPOOSE	RELAX
CONDUCT	ECHO EDITOR	GREENHOUSE GRIM	1 5 8	PAP JHUTE Parallel	HELEASE RELIFF
CONSIDERATE	EFFECT	GRIPE	leygim Lens	PARLOR	RELIGION
CONSTITUTION LONSURER	EL ELECT	GRLT GROWNUP	LICENSE	PASSAGE PASTOR	perish Remain
CONTACT	ELECTRICAL	GULLY	Liuhtrik 8 Limp	PASTRY	KEMARK
CONTRARY	ELE 4ENT	GUL P	* ****	PATIENT	REMOVE

W- ERIC Full fact Provided by ERIC

ucca, : FEFAT sreī 🗚 **キャンドミンピッ**で RESCUE RESERVATION 31 501 4 7 RESTAINANT RESULT GRATER REVERSE REVOLUTIONARY REARISE HORODENDROR RINSE RIGT RISEM RIVAL RODENT K CELANCE MUSTER RUSSERBAND RUNAHAY SATMESS SALESHAN SALTE SANDOUNE SANE SANI TARY SATE SATELLITE SATEN SATISFY SAVAGE SAXOPHONE SCAL P SCARGE SCARECROW SCENERY SCHEME SCHULASTIC SCHOULROGM SCRAMBLE SCRAPBOOK SCREELH SCRIPT SCRUB SCUFF SEAR SEARCH SECONDARY SEDIMENT SEGMENT SELVES SENTIMENTAL SERGEANT SERIGUS SETTLEMENT SEWAGE SHADY SHAFT SHALE SHAMPOO SHARPNER SHELTER SHEKRY SHIRE SHIVER SHOKTSTOP SHREW SHRINK SIFT SILENCE S IL ICON SILO SIMMER SIRE SKYSCRAPER SLAIN SLEW SLING SLINK SLOTH SLUY SMOTHER SNATCH SNIPER SNORKEL SNURT SOAR SOCIETY SOD SOGG Y SOLARSYSTEM SOMEWAY SURROW SOURCE SOUTHERN SPAN SPAR SPARKLE SPECIMEN SPEEDOMETER SPHERE

Ter 84004 930**9**0 3270F - i Śŵ. STAG SYAGEC HES STAN ARD STATIONAR STATIONERY STORGIL NTERE! STIGNA STILF STOMP STOREHOUSE STORMY STOW CIDAMALE STRATUS STRETCH STRIFE CIRCLE STROLLER STRUT STUR STUBBORN State SIGNET CE S_Lir-Cane SUGGEST SUICIDE SULLASE SULFUR SULK ՀՈগটն**Ի**∺ ՀՈՐԵԿՈՒ SUPERINTENDENT SUPERIOR SURJEPY SWAMP SWAT SHAY SWEATSHIRT SWIRL TACKLE TANGERINE TANGLE TAPERECARDER TÁŔP TECHNIQUE TEENAGE TEESHIRT TELETYPE TEMPLE TENDON TENSE TERM TERRIFIC TEXTROOK THANKFUL THEMSELVES THEORY THINNER THREAT THRU **THUD** TILLER TGENAIL TOIL TOPIC TUPPER TORCH TORNADO TOTEM TOTEMPOLE THAIT TRANSPORT THEMBLE TRENCH TREMO TRICKLE

TRIGGER

TROPHY

TROPIC

TUBA

APUT

TUSK

TUTOR

TWEET

THISTER

UNDERSTORD

UNEXPECTED

UMPIRE

UNEVEN

UNICORN

UNKNOWN

MOINU

CONU

TROPESM

TUGBOAT

TRUSTWORTHY

H2481JH บรูยุคันน์ บริธีนุกรร YALUANI F VANSTY **√AŘ**▼ VEGETATION VEIL VERSE YE -: ICAL VESSEL LINYL VINION VULTURE HADDLE HAFFI E WALEUS HASHCLOTH WASTEPAPER MATEPÇOLOR PATT JEALTH ₩EAP: ¥EIRD WEPT HEY HHISKY amit AHITTLE HIDIH WILDERNESS RO824[6 RIINEB 4REATH HRESTLE YANK YARDSTICK YEAH VEAST YELP YOKE YOLK YOURSELVES YOYO GRADE 6 AARDVARK ÁBNÓRMAL ABRUPT ACJEPT ACC OMPANY ACCOMPLISH ACCOUNT ACCURATE ACTIVE ADDLE SCENT ADVANCE ADVANTAGE ADVERTISE ACVICE ADVISE AFFAIR AFT AGDNY AIL AILERON AIRFOIL ALERT ALGEBRA ALLOWANCE ALLOY ALLURE ALLY Almanal ALOF T ALP ALTER

AL UNNE

AMBULANCE

AMMUNITION

AMUSEMENT

ANCESTOP

ANGLER ANIMATE

ANTIQUE

APHID APPARATUS

APPARENT

ANGEL ... ANGLEFISH

31101e:25

BUCKER

BUUGE

AMAZE

AMEN

AMP

AHPLE

AMUSE

5 tt 36 t.

JEFFR

PASAGITOUS

વલ કંઈ

292112 2005211 #371415 1000000 ESSOCISTEDY ASTER ASTRUNOMER ATHE STE ATHLETIC ATTACH ATTAIN AllENDani ATTETUDE AFFARFNYLY APPEAL APPEARANCE APPENDIX APPETITS APPLAUSE APPOINT APPOI THENT APPRENTICE CAV. CEAR APPROVE APPROXIMATE APT ARCHEOLOGY ARCHERY ARCTIC ALTURNET ACTRACT ATTRACTIVE AUS JHR AUDIO **AURICLE** AUTIMARE CHUG AVIATION AVOCADO AWARE AWE AZSLEA BACE BALLAT BALLROUM SALSA BANGIET COG 84R3ell BARCAIN BARITONE BARKER 8A404 BARRACK BARREN BASEMAN BATON REAGLE BEAKER BEFÇH BEY BIBLIOGRAPHY HICEP BICUSPID BARRETTE BIKINI BILE DISON BLACKCAP BLAND BLENCHER BLEAK ziisī BLIZZARD BLOR BLUSH BOARDER BONANZA BONF IRE BOOST BOTANY BOULDER BOULEVARD BOUNDAKY 80**041**1 SOURSON BONTIE BRACKET BRED BREED BREW BRIEFCASE BRILLIANT BRINK BRITTLE BRONZE RROOD BUCCAMEER

HUNGE RYMSEN HUNGLAR LintaEA CURPORAL CORPORATION KUNNUG MUI 1140 CORRESPONDENCE CORRIDOR CALIBER CALLER 03410 CAMPAIGN DUNSELOR CAMSHAFT CANCEL LUURTEDUS COURTSHEE CANTIBAL SANOPY CONHIDE COY CAPER CRAWFISH CREATION CAPTIVE CARBOND TOXIDE CARISOU CARICATURE CREVICE CRIMKES CRIPPLE CARRIER CARTRIDGE CATALOGUE CRUSADER CATHULIC CAVERN CRUTCH CUBIC CUDDLE CUANT NZ CEASE CENTRIFUGAL CUNNING CUR CUP LOUS CHANT CHAPTER CHARGER CUSHION LUSTOMER CHARIOT CHECKERBOARD CHEETAH DACTER DECAY DECEASE CHEMIST DECENT CHICLE L_UISION DECLARATION CHILL CHIVE DECLARATIVE CHROME DECREASE DEMOCRACY DEMOCRATIC CHUCKLE CHUTE DEMOLISH DEPART CITRUS CIVI_IZATION CLASP DEPENDABLE DEPRESS DEPUTY CLEAMSER DESCENT CLEF CLEF DESCRIPTION DESPISE DETECTIVE FIUSTER CCCKPIT DETENTION COCKTAIL DEVELOP DEVELOPMENT COLLAGE DEVICE DIGTATE COLLAPSE COLLEGIATE COMBINATION UICTATOR DIGESTIVE DIGIT DIMENSION COMBUSTION CUMEDIAN CLHEDY DIMPLE COMFORT DINGY COMICAL COMMENT COMMENT DISAPPOINT DISCOUNT COMMERCIAL COMMISSION COMMITTEE DISGUST COMMUNISM COMMUNIST DISHOUNT DIVIDER COMPARE DIVORCE COMPARTMENT DÜĞUMENT DOMATN COMPETITION COMPLAIN COMPLAINT DOMESTIC DORMITORY COMPOSER DRAGSTRIP COMPOSITION UKAINBOARD DRAMATIC UTER CONCENTRIC CORCEPT DRAKN CONDITION DREARY CONFIDE CONFIDENCE DMEDGE DROOL CONFUSE CUNGRATULATION DROUGHT PUCKLING CONGRUENT DUGGUT CONNECTION DYNAMIC EASILY CONQUER CONSCIENCE CONSENT FCL IPSE ECUNOMIC CONSERVE CONSIDER ECONUMY EDIBLE CUNSTRUCTION EDUCATE EFFORT CONSULT CONTAÎN CUNTÊSÎ FJECT ELASTIC OMPEXT CONTINENTAL CONTRACTOR FLEVATION CONTRAST ELIMINATE CONVERSE ELLIPTICAL CONVERT 1,291.64 F-FORCEMENT CONVINCE LIGAGEMENT LNJCYMENT COOPERATE ENROLLMENT ENTERTAIN COPRA CCPYRIGHT ENTERTAINMENT

ERIC

					K _{zs} Ø
			NECKLESS	PR_ TRUE	SCURRY
ENTIRE	W. TE	judgement Judgement	MEEDY	Presjore Prick	SZALION STAPLANE
ENTSA	SROJEH SROJEH	JUGGLER	Meglec: Mpgrle	PR LEST	SECTION
EDIDEM!C	GROUNDHOS	JUVENILE	SICF"	PR IME PR INTER	SEGURITY SEUDOM
EQUATOR EQUILATERAL	GROUSE GROUSE	Kakate Ketch	nightime Nil	PRISM	SELECT
EROSIO.	GRUKPY	ZIDNAP	⊬ <u> </u>	PRISONEL	Selection
ERR ERKOR	GUEST JILTY	Kilometer Knat	NITRAL	Probs Propote	Seller Senator
ERUFT	GUNPONDER	KHAVE	noble Nonsense	PROPELLANT	sen lor
ESÖPHAGUS ESTABL	GUST Hackamore	ane vo	NOOSE	PROPELLOR PROSPEROUS	serp Serial
ESTABLISHMENT	HALF-DOLLAR	knefsock Ladle	Northsouth Nosecone	PROTEIN	SERPENT
ETERNAL Evaporation	HALIBUT MALLWAY	LAGOON	NUCLEUD	PROTOPLA	SERUM SERVANT
ENIDENCE	HAFFILY	Landscape Launcher	NUDGE	Protozoa Prowl	SEVER
EXACTLY	HARDWOOD Harvest	LAYER	numerous Obedient	PUBLISHER	SEVERE
EXAGGEPATE EXAM	HATEFUL	LEA LECTURE	OBSERVATORY	PULSE PUNISH	SHAG 'AGGY
EXCLAMATORY	HAVEN HAYLDFT	LECTARD	OBSERVE OBSIDIAN	PUSS	HAM
EXIST EXOSPHERE	HEADBOARD	LIGAMENT	OCCUPY	PUTTER QUADRILATERAL	SHANTY
EXPAND	HEADLINE	lighter Lightswitch	OCTAGON	OUALITY	Shimmer Shifment
EXPENSIVE	HEALTHFUL Hearse	Likeness	ODDBALL OMELET	C' ARRY	SHOD
EXPERIENCE EXPLORATION	HEATHER	Limber Limous ine	OPAL	ÓU ILL OU ILL	SHOEBOX SHOEHORN
EXPONENT	HEOGE HEED	LITER	OPTICAL ORDINARY	QU ÍVER	SHOWDOWN
EXTRAORDINARY EXTREME	HEIFER	LIVESTOC"	ORGANIC	RADIANT RADIUS	SHUCK SIEV E
FABRIC	HEROINE HEXAGON	LOCOMOTIVE LOLLYPOP	ORIGIN	RAIDER	SIMILAR
FAILURE	HIGHJUMP	LOUSY	ORLON ORNAMENT	RAILWAY	S IP. ILE
FALLOW Famish	HILARIOUS HISTORIC	LOWLAND	OUTBOARD	raincoat Rainfall	s incept Cingular
FARAWAY	HISTORICAL	Lum inous Lunar	Outfielder Outhouse	RAMBLE	SINKER
FEDERAL FELINE	HOAR	LUNCHEON	OVERCOAT	RAPIDLY	SIMEN
FERTILE	H0CK H00 _	Lynch Lynx	OXFORD	RASCAL RATIO	skillet skim
FESTIVAL FETLOCK	HOLLER	MACARON I	OXIDIZER PADDOCK	RAVENOUS	SKYLINE
FIBERGLASS	HOMESICK Homestead	MADAME	PAGEANT	R ALIZE	SLAUGHTER
FILLER Finance	HONEST	MAGICIAN MAHOGANY	PAMPER PANIC	relall Receiver	slæek Slæepingbag
FIORO	HONEYCOMB Honeymoon	MAINLY	PANTRY	RECENT	SLOOP
FIREHOUSE	HOPEFUL	Majestic Majority	PANTY	RECIPACCAL RECITAL	SLOUGH SLUMP
FIREWORKS FISSION	HOPSCOTCH HOUSEHOLD	MALARIA	PAPERCLIP PAPERCUTTER	RECITE	Smelt
FIXTURF	HOVER	MALLARD	PARAMEC IUM	RECOVER	SMUDGE
FLASK FLED	HUBÇAP HU l a	mammy Manganese	PARTIAL	REGISTRATION REHEARSAL	smug Snicker
FLINCH	HUMID	MANGLE	Partly Pastel	REIGN	SODIUM
FLOG	HUMIDITY	MANGO	PATIENCE	RELATE	SOLUTION
FLORIST Fluster	HUMÜK HUMÜROUS	Manly Manor	PATRIOTIC	RELIABLE RELIEVE	Someplace Sometimes
FULLY	HUMUS	MAR INER	PATTER PATTY	REMARKABLE	SOOTH
FORECAST Formal	HUNCH HURDLE	MARLIN MARVELOUS	PAWN	reminder Remote	SOPRANO SPACECRAFT
F DR MULA	HURRAY	MASON	PAYMENT PEACEFUL	renew	SPACEMAN
FORTUNATE FORTY-SIX	HUSKY	MASSACRE	PEDESTR LAN	REPLACE	SPAGHETTI
FOSTER	HYGIENE	max imum Mechan IC	PEDIGREE	REPLY REPORT-CARD	SPARKPLUG SPECTACULAR
FOUNDER Fracture	HYPHEN IULE	MEDICAL	PENALTY PENPAL	REPORTER	SPED
FRANTIC	IOOL	MEDULLA MEMO	PENTAGON	REQUEST RESERVE	SPINAL SPITE
FRENCHFRY FREY	IGNITION IGNORANT	MENACE	Peon Peony	RESET	SPOOF
FRILL	ILLUSTRATION	MENT ION	PEPPERM INT	RESERVOIR	SPORTSMANSHIP SPOUSE
FRONTROOM Fryer	I MAGÉ I MAGE	MERCHANT MERIT	PER PERCUSS ION	res ident res ign	S^RINT
FUGITIVE	IMMENSE	METEOR ITE	PERIODIC	RESIST	SPRITE
FUME FUNCTION	IMPERATIVE	METRIC MIGA	PERISH	reek	SQUAD SQUAT
FUNGUS	IMPLY IMPROVEMENT	m IGRATE	PERMANENT PERPENDICULAR	reper Repill	SQUEAL
FUNNEL FURIOUS	INCOMPLETE	MIGRATION MILITARY	PERSONIFICATION	REFLECTION	SQUEEK SQUIRE
FURTHER	INDIGESTION INDIRECT	MINGLE	Petunia Philosophy	RET INA RET IRE	SQU IRM
FURY	INDIVIDUAL	m in imum	PHOTOGRAPHY	REVERENT	STABILIZER
FUSELAGE Gallant	INDIVISIBLE INFECTION	minority Miser	Phys IC	revive Revolution	STA IRCASE STA IRWAY
GARB	INFLUENCE	MISERABLE	PHYS ICS P ICCOLO	REVOLVE	STANDBY
GARDENER Gardenia	INJECTION	Moccas in Moisture	PILLAR	REVOLVER	STARBOARD STARK
GARLIC	INLET INQUIRE	Mollusk	PIPER PITY	rhombus Ridiculous	STATEMENT
GASKET Gelding	INSPECT	MOLTEN	PLAQUE	RIPPL E	STEAD STEAMER
GENERATION	INSPIRE Instructor	moment Monarch	PLAYPEN	ROACH ROCKER	STEAMSHIP
GENT GEUGRAPHIC	INSULATION	MONASTERY	PLAYSHED PLAZA	ROE	STICKER
GEUMETRIC	INSULT	Mongrel Monk	PLUMB	ROMANTIC ROOT-BEER	STILT STINGER
GERIJND GHASTLY	INTEGER Intellectual	MONOFLANE	plume Pneumon IA	ROTATION	STOPPER
G" JANTIC	INTELLIGENCE	MUNUPULY	POISONOUS	ROVE	STORAGE
GIRTH	INTERIOR Interjection	Monora 12 Moron	POLEVAULT	RUMOR RUNWAY	STRATOS PHERE
GIZZARD GLANCE	INTERMEDIATE	MORTAR	POLIO POLITIC	SACRED	STRICT
GLAZE	INTERN	Mosa IC Mosque	PULLUTION	SACRIFICE	STRUCTURE STRUGGLE
GLEN GLOSS	INTERNAL Introduce	MOSQUITO	POLO POLYGON	Sagebrush Salary	STUBBY
GNU	INTRODUCTION	muck muffler	PORTABLE	SALON	STUFFY
GUCART VOLDFINCH	INVENTOR Invert	MUSCULAR	PORTFOLIO	Saloon Saphir e	STUPENDOUS STUPIDITY
GURE '	INVESTMENT	MUSS MUSTACH	Possum Pounce	SARCASTIC	SUBSTITUTE
GDSSIP GRADUATE	INVISIBLE	MUTE	POVERTY	SARDINE	SUBTRAHEND SUCCESS
GRADUATION	INWARD IONUSPHERE	MUTTER	PRECIPITATION PREDICT	SAT IS FACTORY SAUSAGE	SUITE
GRAFT	JAb	MUTUAL HYSTER IOUS	PREFER	SAVER	SI" AKY
GRANDMOM Grangf	JAUE JAGGED	NARCOTIC	PREFORM	schoorer Scribe	s au r n Su ndial
GRASP	JAVELIN	nav igate Necessary	PREHISTORIC PREPOSITION	SCUM	SUPERLATIVE
GRASSLAND GRID	JEAL OUS Jell	necesoar i	* *****		
Q 11 ETF					

VALUE
VEHICLE
VEHICLE
VENTERA
VERTICO
VET
VIETARA
VICTORY
VILLAIN
VIRGINAL
VIRUS
VISE
VISITOR
VISUALIZE
VODKA
VOLLEYSALL
VAGE TEXTILE
THATCH
THEMSELF
THIRST
THIRTEENTH
THOROUGH Support Support Supreme Surper Surgeon lumor Iundra Transmitter Transfarent Trafile Trapfer Trracherous WEIGHTLESSNESS Weightlessa Weld Werewolf When Whine Whisker Whiz Whiz Wicked Wigham Windowpane Windowpane Windshield Windshield Windshard Wisdom TURBINE TYPHOON UNABLE UNBREAKABLE SURROUND SURVEY SWEAR SWEEPSTAKE UNBREAKABLE
UNCLEAM
UNCOVER
UNDERSHIRT
UNDERSHIRT
UNDERTAKER
UNDERWATER
UNEASY
UNFAIR
UNICYCLE
UNKIND
UNLOAM
UNLOAM
UNLOAM
UNLOKY
UNSAFE
UNWORTHY TREAD THOSUGH
THOU
THR IFTY
THROTTLE
THROUGHOUT
THRUST
THYME
TICKLE
TINCAN
TINKLE TREAD
TREASON
TREASURER
IREASURY
TREATMENT
TREATY
TREAT
TREMENDOUS
TREMENDOUS Swept Swept Swimmer Swipe Sworn Symphony TRESPASS
TRESPASS
TRIBE
TRIBUTARY
TRICEP
TRIGONOMETRY WINIWARD
WISDOM
WITNESS
WOODLAND
WOODLIND
WOOF
WOOTHY
WRING
WRISTWATCH
VACHT SYMPHONY
SYNTHETIC
TACT
TAMP
TAPIOCA
TAVERN
TEDIOUS
TELLER
TEMPERA
TEMPERATE
TEMP TOMTOM TONIC TOPAZ TORPEDO VOLUMN
WAGE
WAITER
WAND
WANFHOUSE
WARNTH
WASHRAG
WATERDOG
WATERWAY
WEALTHY
WEAN
WEAPON TRIGONOMETRY
TRINKET
TRIO
TRIPE
TRIPLL
TRIPLL
TRIPOD
TRIUMPH
TROPICAL
TAUCE
TUBERCULOS IS
TUMNY TORPEDO
TORTURE
TOUCHDGWN
TOUR IST
TOURNAMENT
TRACT
TRANSPORMER
TRANSFORMER
TRANS ISTOR
TRANS ISTOR
TRANS ISTOR UNWORTHY
UPSET
UPS IDEDOWN
UPWARD
USUAL Wristwatch
Yacht
Yawn
Yearly
Yew
Yield
Youngster
Zombi TEND
TENNIS-SHOE
TENSION
TERMINAL USUAL UTILITY VACANT VALVE VARIETY VARIOUS TERRACE TERRAIN TRANSMISSION

Ī

APPENDIX F

FREE-ASSOCIATION WORD LISTS: 1966-1926

FREE-ASSOCIATION WORD LISTS 1966 = 1926 • grade ADVERTISEMENT O 5 AMUSE O 5 ARMOR 3 3 3 DN 4 ARMORD S AMUSE O 5 ARMOR 3 3 3 DN 4 ARMORD S AMUSE O 5 ARMOR 3 3 3 DN 4 AMUSE O 5 ARMOR 3 3 3 DN 4 AMUSE O 5 AM

·grage			ADVICE	6	5	ANUSEMENT	ú	5	ARMOR	3		*.*	4	
leyels.			ADVISE	5	Ó	ANAGR' ^M Analyze	3	Ü 6	ARNY Ahnica	2	_	• •	0	
ICAC13.			AERIAL AEROPLANE	5	5 5	ANALTKE	5	0	APRUSE	0	6 5		5	
•	6 2	4	AFFAIR	6	5	ANCESTOR	5	6	ARRANGE	5	3		0	
•	30 L	9	AFFECT	5	6	ANCESTRY	9	5	ARRANGEMENT	0	6		0	
AARDVARK	-	0	AFFECTION	ა ი	5 5	ANCHOR	4 5	4 5	ARRAY	0	6 5		Ģ 5	
ABANDON Abbreviate	-	6	AFFECTIONATE AFFILIATE	õ	6	ANCIENT ANECDOTE	0	6	ARRIVAL ARRIVE	٤	3		4	-
ABBREVIATION	-	4	AFFORD	ð	5	ANGELIC	6	ō	ART	2	ş	BACKWARD	3	
ABDOMEN	2	0	AFFRIGHT	0	6	ANGER	5	4	ARTERY	5	Q	BACKYARO	4 5	
ABDUCT	-	6	AFT AFTERWARD	6	0	ANGLE Anglefish	4 6	2	ARTICLE	5	5	BACTERIA Bade	? 5	
ABED ABIDE	-	5	AGATE	4	3	ANGLER	6	0	ARTIFICIAL ARTILLERY	5 0	5	BADGER	ó	
ABILITY	_	5	AGE	2	2	ANIMATE	ó	ō	ARTIST	4	3	BADLY	4	
ABLE	-	2	AGENCY	5	3	ANKLE	4	3	ARTISTIL	5	5	BAIL	3	2
ABNORMAL	-	0	AGENT	3	4	ANNEX	0	5	ASBESTOS	6	0	EAIr	3	2
ABCLISH ABOLITIONIST		5	AGONY	0	2	ANNEXATION ANNIVERSARY	0	6	ASH ASHAMED	3	2	SAKING-PONJEK	C_	4
ABROAS		5	AGREE	5	4	ANNOUNCE	Ö	4	ASHES	ő	2	BALANCE BALCONY	5 5	6
ABRUL F	_	0	AGREEABLE	0	5	ANNOUNCEMENT	5	4	ASHTRAY	5	0	BALO	3	2
ABSENCE	_	5 2	AGREEMENT	0	5	ANNOY ANNOYANCE	0	3	ASIDE ASPARAGUS	3	3	BALE	4	2
ABSENTEE Absolute		5	AGRICULTURE Ahdy	4	4 6	ANNUAL	4	5	ASPHALT	5	5	BALK Ball-game	6	5
ABSOLUTELY		5	AID	2	2	ANDNYMOUS	Ó	6	ASPIRIN	6	Ó	BALLAD	6	0
ABSORB	_	6	AIL	6	2	ANTEATER	5	6	ASS	4	2	BALLET	3	0
ABSTINENCE ABSTRACT	-	6 6	AILERON	6	2	ANTELUPE	3	6	ASSASSINATE ASSEMBLE	0	5	BALLOT	4	Ö
ABSURD	_	6	AIM AIRCRAFT	3	0	ANTENNA ANTERDOM	õ	é	ASSEMBLY	Š	3	BALLROOM Balsa	6	0
ABUNDANCE	_	6	AIREDALE	Ó	6	ANTHEM	ō	6	ASSESS	0	6	BAMBOO	5	4
ABUNDANT	_	6	AIRFOIL	6	o	ANTHER	5	0	ASSIGN	٥	6	BAN	2	3
ABUSE ABUSIVE	-	6 6	AIRFORCE AIRLINE	4 5	0	ANTHROPOO ANTIBIOTIC	4 6	0	ASSIGNMENT ASSIST	0	5	BANDAGE	4	4
ABYSS	ŏ	4	AIRHAIL	5	Ö	ANTICIPATE	0	4	ASSISTANT	Ö	5	BANDAIO BANDIT	5	0
ACADEMY		5	AIRPORT	3	0	ANTICS	0	6	ASSOCIATE	6	5	BANISH	Ó	6
ACCENT		6	AIRS	0	3	ANTIQUATED	0	6	ASSOCIATION	6	4	BANISTER	0	5
ACCEPT ACCIDENT	6	~	AIRSHAFT AIRSHIP	0	6	ANTIQUE ANTLER	6 4	6	ASSORTED ASSURE	0	6	BANJO Bankedok	0	4
ACCOMMODATE	-	6	AIRY	Ö	5	ANTONYH	4	4	ASTER	6	2	BANKER	ă	ź
ACCOMPANY	_	6	AISLE	5	5	ANVIL	4	5	ASTERDID	4	Ú	BANKING	Ö	2
ACCOMPLISH ACCORD	_	5 6	ALARM	3	Z	ANXIETY	0	6	ASTONISH ASTRONAUT	5	5	BANKRUFT	0	6
ACCORDANCE		6	ALAS Album	0	5	ANXIOUS ANYHOW	5 3	6	ASTRONOMER	6	٥	BANNER Banguet	•	2
ASCORDING	_	4	ALCOHOL	5	3	ANYPLACE	4	ó	ASTRONOMY	5	5	BAPTIZE	ā	6
ACCURDION	-	0	ALDERMAN	0	6	ANYTIME	3	0	ATHLETE	6	5	BAR	2	2
ACCOUNT ACCOUNTABLE	-	3 6	ALE	4	2	ANYWHERE	4	3	ATHLETIC ATHLETICS	6	5	BARB	6	0
ACCURACY		6	ALERT ALFALFA	6	2	APE APHID	2	2	ATMUSPHERE	3	6	BARBELL Barber-Shop	6	0 5
ACCURATE	6	5	ALGAE	5	ō	APOLOGIZE	6 0	9	ATOM	3	ő	BARO	3	ž
ACE		2	ALGEBRA	6	6	APOSTLE	ŏ	6	ATOMIC	5	0	BARELY	5	0
ACH1EVE	_	6 0	ALIEN	0	6	APOSTROPHE	0	6	ATTACH	6	6	BARGAIN	6	4
AGIO Acknowledge	-	6	ALLEGE ALLEGIANCE	0	5	APOTHECARY Apparatus	0 6	5	ATTACK ATTAIN	4	5	BARGE BARITONE	6	ئ 0
ACQUAINT	_	4	ALLIANCE	ō	6	APPAREL	0	5	ATTAINMENT	Ö	6	BARK	2	2
ACQUAINTANCE		6	ALLOW	5	3	APPARENT	6	ō	ATTEMPT	0	5	BARKER	6	0
ACQUIRE	-	5	ALLOWANGE ALLOY	6	6	APPARENTLY	5	0	ATTEND	4	4	BARLEY	4	5
ACRE ACROBAT	• •	4	ALLURE	6	0	APPEAL Appear	6 5	3	ATTENDANCE	6	3	BARNYARO Barometer	3	3
ACTION		3	ALLY	6	6	APPEARANCE	6	6	ATTENTION	5	4	BARON	6	Ö
ACTIVE		5	ALMANAC	6	õ	APPENDIX	6	Ó	ATTITUDE	6	0	BARRACK	6	C
ACTIVITY ACTOR		4 3	AianCAD ALOFT	ر 6	5	APPETITE APPLAUD	6 0	6	ATTORNEY	6	5	BARREN	6	5
ACTRESS		5	ALOT	2	ŏ	APPLAUSE	6	6	ATTRACT ATTRACTION	6	6	BARRETTE Barrow	6	3
ACTUAL		0	0	5	3	APPLESAUCE	5	3	ATTRACTIVE	6	6	BASE	ž	5
ACUTE		0	ALP	6	0	APPLICANT	0	6	AUBURN	6	0	BASEMAN	6	5
AD ADAPT		Q 6	AL PACA AL PHABET	0	6	APPLICATION APPLY	0 5	6	AUCTION	0	6	BASH	4	0 5
ADD		2	ALPHABET IZE	4	ō	APPOINT	6	5	AUDIENCE AUDIO	0 6	6	BASHFUL Basic	2	0
ADDEND	4 ()	ALRIGHT	4	0	APPOINTMENT	6	6	AUDITORIUM	5	5	BASIN	5	4
ADDITION		2	ALTAR	0	5	APPRECIATE	5	5	AURICLE	6	0	BASIS	0	6
ADOITIONAL ADENUIO	0 9	5	ALTER ALTERNATE	6	5	APPRECIATION APPRENTICE	0 6	6	AUTHOR AUTHORITY	3	5	BASK BASKETBALL	0 3	3
ADJACENT		ś	ALTHOUGH	5	3	APPROACH	ŏ	4	AUTOBIOGRAPHY	5	0	BASS	3	2
ADJECTIVE		5	ALTITUOE	4	6	APPROVE	6	6	AUTDGRAPH	4	6	BASSOON	0	5
ADJOIM		5	ALTO	5	5	APPROXIMATE	6	0	AUTOHARP AUTOMATIC	6 5	0	BAST	3	0
ADJOURN ADJUNCT	0 6		ALTOGETHER ALUMINUM	4	6	APRICOT APT	6	2	AVERAGE	5	3	BASTE Batch	0	3
ADJUST	5 6		ALUMNI	6	Ō	AGUA	4	ō	AVIATION	6	6	BATHE	4	ō
ADJUSTMENT	5 0		ALWAY	5	0	AQUARIUM	4	4	AVIATOR	0	3	BATHHOUSE	0	6
ADMIRAL	0 6	_	AMATEUR Amaze	0 6	6	ARBOR	0	3	AVOCADO AVOID	6	0	BATHING-SUIT	٥	5
ADMIRATION ADMIRE	0 4	-	AMAZEO	ō	5	ARC ARCH	6 5	5 6	AVUIROUPDIS	3	6	BATHROBE Bathroom	0	5
ADMISSION	0 6		AMBER	5	4	ARCHB I SHOP	ō	6	AWAIT	ŏ	5	DATON	6	ō
ADMIT	0 3		AMBITION	0	5	ARCHEOLOGY	6	0	AWAKE	3	2	DATTER	2	3
AUMITTANCE	6 0		AMBITIOUS AMBULANCE	0 6	5	ARCHER	0 5	4 G	AWAKEN AWARO	9	5	BATTERY	4	4
ADOLESCENT ADOPT	6 0	•	AMEBA	5	ō	ARCHERY ARCHITECT	0	6	AWARE	6	0	BATTLE BATTLESHIP	3	2
ADORABLE	0 4	÷	AMEN	6	6	ARCTIC	6	0	AWE	6	5	BAUXITE	5	0
ADDRE	5 5		AMETHYST	j.	6	AREA	4	4	AWKWARD	0	6	BAY	2	2
ADULT ADVANCE	3 0		AMMONIA AMMUNITION	0 6	6 5	ARENA ARGUL	5 5	0 5	AWL AWNING	0	6	BAYONET	0	3
ADVANCE	5 5		AMONG	5	2	ARGUMENT	0	5	AWOKE	ŏ	3	BAZAAR BAZOOKA	0	5
ADVANTAGEDUS	0 6	•	AMOUNT	5	4	ARID	6	0	AXE	4	9	BEACHBOY	5	0
ADVENTURE	2 5	-	AMPHITATAN	6	0	ARISE	6	5	AXIS	0	4	BEACON	6	2
ADVERB ADVERBIAL	4 6 0 6		AMPHISIAN AMPLE	3	6	ARITHMETIC ARK	2	2	AXLE AYE	3	5	SEAGLE SEAK	6	3
ADVERTISE	5 6		AMPLIFIER	5	0	ARMCHAIR	ō	4	AZALEA	6	õ	BEAKER	6	0
<u>-</u>	_											•		



													mi ei
∂ē≸"			272										
SEANSTA -		î ;			= ½	-గుడకుల్లు 5 ఇకపడుల		2000	0 - 1, F19E JA4PUS		: 0 3 0		2 5
BEARD BEAST		3 2	SLOTTER SLIZEF		3 3 4	32 22 2 38 6 c		50.5	5.450a= 121 xL	,	٠ ر	CHAMP	~
SEATER SEATITUDE		5 5	BLOWN		2 3	57.3-4-B-4C	į) 5	CANCEL	-	5	CHAMPII: CHANDELII:	ა 0 გ
BEAUTY		J 3 3 2	9LU88E447		5 ć • 2	BRICKBIT BRICKBIT		5 5		6		CHANGEABLE FHANNEL	0 4
BEAVER Became		2 2 3 2	DLUEGREEN Bluff		3 0	JRIDE BRIDEGROEM		2 2	SANCIO	-	· 0	TVAND	6 Q
BECKON Become		0 5	BLUING		C 4	BRIDLE		3 5	CANISTER	5	0	CHAPEL	5 ? 4 ბ
BEDROCK		2 2	BLUNDER Blup		0 5 3 0	BRIEF BLIEFCASE	:	5 4		<u>ئ</u> ئ		CHAPTER Char	6 5 5 U
BEDSPREAD BEDYIME		5 5	BLUSH BOA		ნ 3 5 ე	BRIG BRIGADE		5 0	CARNON-BALL	3		CHARACTER	2 2
BEECH Beechnut		£ 3	BDAR B DAR DER	4	4 5	BRILLIANT) c	CANDN	٤	9	CHARCDAL Charge	4 5 3 3
BEEFSTEAK		0 4	BOAST		6 6	BRIM Brink	ě	-	CANOPY CANTALOUS#	0	-	CHARGER CHARIOT	6 0 6 3
BEER Beer		5 5 2 2	BOATHOUSE BOATING		0 4	BRITTLE BROAD		. 5	CANTET - GANTL	5	_	CHARITABLE CHARITY	0 5 5 4
BEETLE Befall		3 3	BOATMAN BOB	(5	SROAD-JUMP	(5	CANVASS CANYON	3	É	CHARM	4 3
BEFRIEND	(4	BOBBYPIN		5 0	BRGADCAST Broadcloth	0		GAPABLE	0	5	GMART Gmarter	2 2 0 5
BEGGAR		5 3	BOBCAT BOBCLINK	č	3 4	BROIL BRONCO	4	_	CAPAC:TY	0 ნ		GHAT Chatter	3 2 3 4
BEGINNER Beginning		0 4	5001L Y 806		5	BRONZE BROOD	6	5	CAPITAL CAPITALIZATION	2		CHAUFFEUR Cheap	0 6 4 2
BEGONIA Begun		0 6	BOIL	- 2		BRDOK	2	2	CAPITALIZE CAPITOL	3	6	CHEAT	3 2
BEHAVE	4	, 1	BOILER Bold	í		BROTHER-IN-LAW	5	_	CAPSIZE	0	6	CHECK CHECKEP	2 2 2 4
BEHAVIOR BEHOLD		5 4	80LE 80LE	2	. 0	3ROTHERHOOD BROW	4		GAPŠULE Captive	6	6	CHECKERBOARD CHEEP	6 0 4 0
8EING BELIEF		2 5	SOLDGNA BOLT	5	3	BPUISE	5	4	CAPTOR Capture	0		CHEER	3 2
BELLBOY BELLOW	C	6	BCMB	3	5	BRUNETTE Brute	5		CARAMEL	0	5	CHEERFUL CHEERY	5 4 0 2
BELLOWS	4	3	BOMBER Bonanza	6	-	BUCCANEER Buck	6		CARAVAN CARBON	3	0 5	CHEETAH CHEF	6 0 5 0
BEFOAED REFFA	3		BONBON BOND	3	6	BUCKER	6	0	CARBONDIOXIDE CARBURETOR	6	0	CHEMICAL CHEMIST	5 6
BELOW Beneath	3	2	BONDAGE	0	6	BUCKLE BUCKLE	3	6	CARD-INDEX	0	ć	CHEMISTRY	3 C
BENEDICTION	5	5	BONEY BONFIRE	6		BUCKWHEAT BUDDY	0	_	CAREER Carefully	0 4	6	CHERRYTREE CHESS	4 0 4 5
BENEFIT BENUMB	0		BONNY BONY	4	_	BUDGE BUFF	6	0	CARELESSNESS CARET	0	6	CHEWING-GUM CHICKADEE	0 5
BENZINE Berate	0		SOOKCASE	4	2	BUILDER	3	2	CARFARE CARGD	5	3	CHICKENPOX	5 0
BERET	5	0	BOOKKEEPING Booklet	0 3		BULL.	გ 2		CARIBDU	6	ō	CHICLE CHICLE	6 0 0 5
BETRAY Beverage	0		BOOKSHELF BCCKWDRM	5		BULLDOZER Bulletin	5 4	0 3	CARICATURE Carldad	6	0	CHIL I Chill	6 0 3 2
BEWARE BEWITCH	2		BODMERANG BODN	4	0	BULLETINSOARD	4	o	CARNIVAL CAROL	3	5 5	CHILLY	2 4
BEY	6	0	BOOR	4	Q	BULLFRGG Bully	4	6	CARP CARPORT	5	Ō	CHIME Chimp	3 2 4 0
BEYOND BIBLIOGRAPHY	6 2		BOOST Booster	6 5		BUM BUMBLE	3 5	2	CARRIER	5 6	0 5	CHIMPANZEE CHIN	3 O 2 2
BICEP Bicuspid	გ 5		BOOTH BOOTLEGGER	2		BUMPER Bumpy	5 5	0	CARTON CARTOON	3	0	CHINA CHINA-CLOSET	0 6 0 5
BIDOEN	2	2	BODZE BORAX	4	0	BUNDLE	3	2	LARTRÍDGE Carve	6	o S	CHINAWARE	0 6
BIKE	2	ō	BORDER	6 5	4	BUNGALOW Bunk	0 3	2	CASCADE	0	5	CHINK Chip	0 3 2
BIKINI Bile	6 5		BORE BOROUGH	5		BUNT BUDY	5		CASH-BDY	0	2	CHIPMUNK CHIRP	2 5
BILLBDARD BILLFGLD	0 5	-	BORROW Bosom	3		BURDEN Burglar	6	5	GASH-GIRL Cashew	5	5 D	CHISEL Chivs	5 4 6 0
PITTHEND	ó	6	BOTANY	6	ò	BURGLARY	Ö	5	CASHIER CASHMERE	0	5	CHLOROPHYLL	5 0
BILLIGN BILLOW	o	-	BOULDER BOULDER	5	3	BURÍÁL BURLAP	0	5 6	CASKET	4	3	CHOCK SHOICE	3 0 3 3
BIN BIND	4	2	80ULEVARD Bound	6 3	3 2	BURNER Burp	4	0	CAST Castur-Dil	2	2 4	CHDIR CHDKE	2 5 2
BINDER Bing	5	0	BOUNDARY BOUNTY	6	5	BUKKO BURROW	4	٥ ٥	LATALDG Cataldgue	3	0 3	CHOP-SUEY CHORD	0 5
BINGO	2	ō	BOURBON	6	0	BURST	4	3	CATECHISM	0	6	CHORE	4 0
BIOGRAPHY BIOLOGY	5		BOUT BCW-WOW	3	5 2	BURY Bushel	5	0 3	CATFISH Cathedral	3	6	CHORES CHORUS	0 5 5 4
BIRTH Bishop	3	3	BOWEL Bower	5	4	BUSINESS	2	2	CATHULIC LATNIP	6	C 5	CHOSE CHOSEN	5 3
BISON BITTEN	6	5	BOWTIE BOWWOW	6	0	BUST BUTLER	0	2	CATSUP	4 4	5	CHDW CHRISTEN	2 2
BLACKCAP	6	0	BOXCAR	2	Ō	BUTT	5	ē	CATTAIL	3	3	CHROMATIC	0 4
BLACKJACK Blacktop	0	6	BOXER BOY-SCOUT	4	0 3	BUTTERFLIES BUTTERNUT	4	0	CAULIFLOWER Caution	é	5	CHROME Chronic	6 0 0 6
BL ADDER Blade	5 3	0	#CYHODD HZIYOB	0	3	BUTTERSCOTCH	0	6	CAUTIDUS Caveman	0	6	CHRYSANTHEMUM CHUBBY	0 6
bl ame	3	-	BOYSCOUT	4	0	BUZZ	2	2	CAYERN CAVITY	6	Ŏ	CHUCK	0 3
BLAND	6	2 0	HRA Bracê	4	5	BUZZARO BUZZER	5	0	CAWITY	6 4	0 2	CHUCKL E CHUG	6 C 5 O
BL ANK GLARE	2	2	BRACKET Brad	6	6 0	CABLE Lactus	4	2	CEASE CELEBRATE	6	6 3	GHUM CHUTE	5 3 6 0
BLAST INGCAP	3	2	BRAG BRAID	2	6	CAD	5	Ž	CELEBRATION	0	5	CIDER CIGAR	4 3 3
BLASTOFF	4	Ŏ	BRAIN	3 2	3 2	CAFE	5 3	3 3	CELL	4	2	CIGARETTE	4 4
BL AZE BL EACH	4	3 6	Brakek in Bran	0	5 2	CAFETERIA Calcium	<u>دَ</u> 6	5	CELLULDID	0 3	4	CINCH CINDER	4 0 5 3
BLEACHER BLEAK	6	0 5	BRANDY Brass	6	9	CALCULATE CALCULATION	0	6	CENSUS LENTENNIAL	0	5 6	CINNAMON Cipher	5 6 0 6
BLEAT	0	2	BRAT BRAVELY	2	2	CALIBER	6	Ō	CENTIMETER	5	0	GIRCUIT CIRCULAR	4 4
8L END	2	3	BRAVERY	4 5	0	CALICO	0	5 2	CENTIPEDE CENTRAL	4	6	CIRCUMFERENCE	0 4
BLINK BLISS	6	2	BRAY SECANLUA	0	3	GALK Galler	6	3	CENTRIFUGAL CENTURY	6 4	0	CIRCUMSTANCES CIRRUS	0 6 6 0
BLISTER BLIZZARD	4	0 4	BREAKERA BREASTPIN	6 0	4 5	CALM	4	5	CHREAL	3	2	CISTERN CITIZEN	0 5
BLOB BLOCKADE	6	0	BREASTPLATE BREATH	0	6	CAM	3	ŏ	GERTAIN	4	3	CITIZENSHIP	3 0
BL GND	3	2	BREATHE	4	2	CAMBRIC CAMERA	0 3	4	CERTIFY	0	5 6	CITRUS CIVICS	6 0 0 5
BLOND£ BLODO	0	0 3	BPEATHLESS Bred	6	6 0	CAMPAIGN CAMPER	6 3	5 0		2	5 0	CIVIL CIVILIAN	5 5 0 6
							-	-	-	-	-		



The second secon

												Ste *z*
08/86:227:30-		COMCT	7		001215. 115		-	3 16	£.	_	5239	F. 3
SLAG:	& 1 C	LOMEUR:		3	CONSIDER ATTO	÷	3	. Rannoole, urafe erafe	4.00	C) (S) E	PAS DAFFUDIL	3 0
CL A	5 2	CUMPORTABLE CONSC	4	2 0	CONSTRUCT CONSTRUCTION	*	ć h	CRAS- CRATE	£ 3	2 3	DAGGER	6 5 3 2
Cr ,	2 2 4 C		3	2	GC ISULT Consumer	5	5 0	GRATER Chaye	3 0	0 3	DAILY DAINTY	5 3
CL G	5 4 4 3	COMMANS Commans er	5	4	CONTACT CONTAGIOUS	9	0 5	lrandad Cranfish	4	0	DALE_	3 2
CL ARD	2 0	COMMEMORATE COMMENCE	0	÷	COMTAIN CONYAINEN	te ú	۶ 0	LRAYCLA	2 0	0 3	DAMAGE Dame	5 4 3 2
CL SH	\$ 6 5 6	COMMEN! Commerce	3 4	0 4	CONTENT CONTEST	 6	4	CREAK CREAMERY	5 0	4	DAMN Damp	0 3 3 2
CLASP CLASSIC	δ τ Ο δ	COMMERCIAL COMMISSION	ก 6	3	CONTEXT	\$	Ğ 4	LREATE CREATION	5	5 6	DAMPNEST Dancer	0 4
CLASSMATE CLASSROOM	4 5	CORMI: SIONER	e	5	CUNTINENTAL	و د	5	LREATIVE	4	Û 4	DANGEROUS DAPPLE	5 5 0 2
CLATTER	5 0	COMMITEE	6	6	CONTINUE	0	4 5	CREATURE	3	4	DARE	3 2
CLAN CLEARER	2 2 2 3	COMMUNICATE	3	4 6	CONTRACT CONTRACTION	4	2 5	CREED CREEP	3	2	DARKNESS DARLING	0 4
CLEANLINESS GLEANSE	0 5	COMMUNICATION COMMUNION	3 C	5	CONTRACTOR Contradict	6 0	5	GREEPY CHEPE	5 5	€ 3	DAREING DART	0 5 2 2
GLEANSER Cleave	4 5 0 6	COMMUNISM COMMUNIST	5 ర	0	CONTRARY CUNTRAST	5 و	3	CREPT CRESGENT	3 0	3 6	DASH Data	3 ? 5 0
CLEAVER CLEF	5 5 6 6	COMMUNITY COMPACT	3	5	CUNTRIBUTE CONTROL	5 5	6	CREST CRETONNE	4	5 8	DAUGHTER DAVENPORT	3 2 5 4
CLERK GLEVER	5 3 4 2	COMPANION COMPARE	0 \$	4	CUNVENIENCE CONVENIENT	0	6	CREVICE CREW	5 2	6 5	DAWN Dayepeak	2 2
CLICK CLIFF	3 2 3 2	COMPARTMENT COMPASS	6 5	0	CONVENTION	0	3	CRIB CRICKET	3	2	DAYLIGHT DAYTIME	4 3
CLIMATE	5 4	COMPEL	0	5	CONVERSATION	5	4	CRIME	3	4	DAZE	5 0
CLIMAX CLIMBER	0 3	COMPENSATION COMPETE	5	6	CONVERSE	6	3	CRIMINAL CRIMSON	5 0	4	DEADLY DEAF	4 3
CLING CLINIC	5 2 5 6	COMPETITION COMPLAIN	6	0 5	CONVICE CONVINCE	6	4 6	CRINKLE CRIPPLE	6 6	0 2	DFAL Dealer	3 3 4 5
CLINK CLIP	5 0 - 5	COMPLAINT COMPLETE	6 2	4 3	CODKY CODKY	2	6	CRUCK CRUCK	4 4	5	DEAN Death	3 5 4 3
CLIPBOARO CLIPPER	> 0 4 0	COMPLEXIC'	0	ć 5	LOGN Cooper	3 6	2 6	CROCODILE CROCUS	2	6	DEBATE DEBT	0 4 5 0
CLIPPERS CLCAKROOM	0 6	COMPLICA COMPLIMENT	4	9	COSPERATE COP	6 2	0 G	CROOK CROON	S	2	DECAP!	4 6 6 2
CLOO CLOG	2 2	COMPOSE	5	4	LOPE COPPER	3	0 2	CROP	3	3	DECEASE DECEIT	6 6
CLUP	5 0	COMPOSER COMPOSITE	0	6	COPRA	6	0	CROSSING	0	6 3	ULCEITFUL	0 6
CLCT CLC7HE	4 0	COMPOSITION COMPOUND	6 3	3 2	CORYKIGHI CORAL	6	5	CROSSWALK Crouch	5 5	0 Û	DECENT	6 5
CLOTHESPIN CLOTHIER	0 5	COMPRESS COMPRISE	0	6	CORD Cordial	0	2 5	CROUP CRUCIFY	0	6 5	DECIDE DECIDUOUS	4 3
CLOTHING CLOUDLESS	5 3 0 6	COMPROMISE Compute	0 4	6	L DR DURGY CORE	2	6 2	CRUDE CRUEL	5 3	0 5	DECIMAL DECISION	5 5 6 6
CTORE	3 4 5 3	COMPUTER Comrade	6 0	n 5	LGRNBREAD Lornea	5 6	5 0	CRUISE CRUISER	5 6	6	DECISIVE DECK	0 6 2 2
CLUSHOUSE Cluck	0 6 4 3	CON CONCEAL	4	0	CORNED-BEEF LURNET	0 5	5 6	CRULLER CRUMPLE	0	5 B	DECLARATION DECLARATIVE	5 4
CLUE CLUMP	2 0 5 3	CONCEIT	0	6	CURNFLAKES CORNMEAL	0	4	CRUNCH	3	3	DECLARE	5 4
CLUMSY CLUSTER	5 4	CONCENTRATE CONCENTRIC	6	0	LÜRCPET	5	4	CRUSADE Crusades	3 6	6	DECREASE DEED	2 2
CLUTCH	5 5	CONCEPT Concern	5	0 5	LGRPURAL LGRPGRATIGN	Ó	4	CRUSH CRUST	3	3	DEEPSKIN Defeat	0 5
CDACH CDARSE	3 3	CONSERT CONGRETE	5 4	5 3	USRPS UBRPSE	6	G 5	CRUTCH Crystal	5 3	3	OEFECT Desend	0 5 0 5
GDAST COAST-LINE	2 2	CONDEMN CONDENSATION	0	6	LORRAL Coprect	3	5 2	CUB CUBBYHOLE	2	2	DEFENSE Define	5 5 4 5
CDAT-HANGER CDAX	0 4	CONDENSE CONDITION	4 6	6 5	CORRECTION CURRECTLY	5 5	0	CUBIC CUBSCOUT	6	5	DEFINITE DEFINITION	0 5
COB Cobbler	3 2 5 0	CONDUCT CONFECTION	5	2	LORRESPOND Lorrespondence	0 6	6 6	CUCKOO LUCUMBER	4	0	DEFORMED DEGREE	0 6
COBRA COBWEB	5 0	CONFECTIONERY	0	6	CORRESPUNDENT CORKIDUM	0	6	CUD	3	2	DELA	0 2
COCK	3 2	CONFEDERATE CONFEDERATION	0	6	CORSET	0	5	CU OD LE	6	Ö	DELICATE Delicatessen	0 4
COCKPIT	6 0	CONFERENCE CONFESS	0	5 5	LOSTUME	5	4	CUFF CULTIVATE	5 0	3 5	DELICIOUS DELIGHT	5 <i>3</i> 5 2
COCOON COO _	5 4 3 2	CONFESSION CONFIDE	0 6	6	COT LOTTON-GIN	9	2	CULTIVATION CULTURE	0 5	5 5	DELIGHTFUL DELIVER	0 4 5 4
COOOL E	0 6 2 2	CONFIDENCE CONFINE	6	6	COUGAR Lough-drop	4 G	0 6	CUMULUS Cunning	5 6	0	DELL Delta	2 2 5 6
COOFISH Coffeepot	5 5 0 4	CONFIRM CONFIRMATION	0	5	CLUNCIL LUUNSEL	5	6	CUP-CAKES CUPCAKE	0	3	DELUGE DEMAND	0 5 5 3
COFFIN CDG	4 5 6 0	CONFUSE CONFUSION	6 0	6	COUNSELUR LUUNTERPANE	6	0	CUPFUL CUPIO	0 5	4	DEMOGRACY DEMOGRATIC	6 0
CDIL CDIN	5 2 3 2	CONGENIAL CONGRATULATE	o o	6	LOUNTESS	0	6	CUR	5	5	DE MOL I SH	6 0
COKE	2 2	CONGRATULATION	6	5	COUNTY	3	5	CURD CURD	5	3	JEMON DEMONSTRATE	0 6
COLE	4 0	CONGREGATION CONGRESS_	0	4	LUUPUN	Ō	5	CURIO	3	3 6	NEHONSTRATION DEN	0 3 2 2
COLLAGE COLLAPSE	6 5	CONGRUENT CONTEER	6 4	0	COURAGEOUS	0	4 6	CURIOSITY CURIOUS		6 4	DENOMINATION DENOMINATOR	0 5 5 4
COLLECTION	3 2 3 6	CONJUNCTION CONNECT	6	4	LOURT LUURTEOUS	<u>ۇ</u> ئ	3 6	CURLER Currant	4 D	0	DENSE DENT	5 0 2 2
COLLECTOR COLLEGIATE	4 6 6 0	CONNECTION CC LUER	0	4	LOURTESY COURTSHIP	3 6	4 0	CURRENCY CUPRENT	9	6 4	DENTAL DEPART	0 ž
COLLIE	5 3 0 6	CONSCIENCE CONSENT	6	5	LOVE	4	5	CURSE CURSIVE	5	6	DEPEND DEPENDABLE	5 4 6 D
COLONEL	5 6	CONSEQUENCE	0	6	COMGIRL	3	0	CURVE	5 4 6	4 5	DEPENDENCE	0 5
COLONIAL	D 5	CONSERVATION CONSERVE	3	0	COWHIDE COMPUNCHER	G	6	CUSHION CUSTARD	0	5	DEPORT DEPURTMENT	0 5
COLONIST	0 5	CONSIDER Considerable	6 0	5	LCWSLIP LGY	6	2	CUSTODIAN CUSTOM	4	0 4	DEPOSIT DEPOSITOR	5 4 0 3
COLORFUL COLT	5 0 2 2	CONSIDERATE CONSIDERATION	5 0	5 4	COTA POACIE	5	5	CUSTOMER CUTICLE	6	5 6	CEPRESS DEPRIVE	6 0 0 5
COLUMN COMBAT	3 4 3 0	CONSIST CONSLUSION	ŏ	6	LRACKERJALK LRACKLE	0	0	CUTLERY CUTOFF	0	6	DEPTH DEPUTY	5 4
LOMBINATION COMBINE	6 4	CONSOLATION	0	5	CRAFT CRAG	3	5	CUTTER CYCLE	4 3	0	DERBY	5 6
COMBUSTION COMEDIAN	6 0	CONSOLIDATE CONSONANT	4	5	LRAM	2	6	CYCLONE	4	5	DERIVE DERRICK	0 4
COWEDA	6 5	CONSTABLE Constant	0	5 5	GRAMP Crane	3	2	CYLINDER CYPRESS	-	6	DESCEND DESCENT	0 5 6 0



والمراجعة والمرا

													3	*****
SESSPICE	5	2	45°15546	5		<u> ೧</u> ೩೯೪೯	ءَ	5	ERANDERATELY	**	4	5144215	_	3
DESCRITT L -	£1	5	JIE456YT		Ų.	<i>3</i> 303		-	EMBARRASS+ 2 +T	Ž		exceps	Ĺ	6
DESERT	5	5	DISOBENTERUE	•		SRUCGIST		5	FRELEM	٥	4	Ex(En	S	9
DESER#8 DESIRA	6	3	DISCBE. DISCBDER	٥	,	ერსწაქმი: ცგერონი		-	CHOPALE		<u> </u>	EX EL SV PXCEPTEUM	-	3 5
DESPISE	٥	9	DISCRDERLY	0	5	ひえひちだ		3	EMBROIDER EMBROIDERY	3	اخ ج	LXCESSIVE	0	é
DESSERT	3	5	DISPATCH	Ď.	6	DRY-SOCES		5	SMERALO	3	5	"XCHANCE	ő	3
DESTINATION	J	6	LISPENSARY	Š	5	DRYGELL		C	ENERGENCY	5	5	EXCITE	4	ž
DES. RCY	£,	4	DISPERSE	9	C.	DRYER		Ç	EMPERCR	0	4	EXCITEMENT	5	5
DESTROYER	5	6	DISPLAY	ć	**	DUCHESS		6	EMPHAS IS	0	6	EXCLAIM	č	4
DESTRUCTION	5	ú	DISPLEASE	0 5	5 0	อบอ อบอย		0	EPPIRE	4	5	EXCLAMATION	5 6	3
DESTRUCTIVE DETAIL	0 5	o G	DISPOSAL DISPOSITION	0	6	70E 33DE		2	EMPLOY	0	4	EXCLAMATERY EXCLUSIVE	5	5
DETECTIVE	ó	5	DISPUTE	ē	5	DUEL		3	EMPLQYER EMPLSYMENT	0	6	EXCURSION	ó	4
DETENTION	6	6	DISCUALIFY	ò	5	DUES		3	EMPRESS	J.	5	EXCUSABLE	Õ	4
DETERGENT	4	C	DISSOLVE	4	٥	DUG		2	ENAULE	ě	5	EXECUTE	ō	5
ULTERAINE	G	4	DISTANCE	3	4	DUGCUT	•	0	ENACT	ŏ	6	EXECUTIVE	Q	6
DEL'STATE	Q	ó	DISTANT	3	4	Dake		4	ENAHEL	4	5	EXERCISE	2	3
DEAEFOL	٥	5	DISTINCT	3	6	OULL		2	ENCAMP	o	6	EYERT	0	6
DEVELOPMENT	6	0 5	CISTENCTIVE	Ü	5 6	DUMB DUMMY		2 3	ENCLOSE	5	5	EXHALE	9	6
DEVICE	6	3	DISTINGUISH DISTRACT	٥	5	DUMPL ING		5	ENCOURAGE ENCYCLEPEDIA	3	<u>ა</u>	EXHAUST EXHIBIT	4	6
OFAULE	õ	ś	DISTRESS	5	4	DUN		C	ENCANGER	5	6	EXHIBITION	ō	5
DEVOTION	Č	5	DISTRIBUTE	5	4	DUNI.S	2	3	ENDEAVCR	õ	5	EXIST	6	6
DEVOUR	0	3	DISTRIBUTION	0	<u>6</u>	DUNE		0	ENDURE	O	5	EXII	2	2
DEM	2	2	DISTRIBUTOR	5	0	DUNGEON		5	r Y	4	3	EXCSPHERE	4	0
DEWOROP	0	5	DISTRICT	4	3 5	DUNK		0 5	ENERGY	4	5	EXPANS	5	٤
DIAGGNAL	0 5	6	DISTURB Ditto	2	0	DUPLICATE DURING		4	ENFORCE	0	6	EXPANSION EXPEDITION	0	6
DIAGRAH Dial	3	5	DIVE	2	2	SUSK		3	ENFORCEMENT ENGAGE	5	4	EXPEND	č	5
DIAMETER	5	ő	DIVE	4	ć	DUSTER		6	ENGAGEMENT	6	5	EXPENSE	ŭ	4
DIAPER	5	Ō	DIVIDE	3	2	DUSTY	3	3	ENGRAVE	õ	6	EXPENSIVE	6	5
DIARY	4	٥	DAVRDEND	ō	3	DUTY		2	ENJGY	2	3	EXPERIENCE	6	5
NICE	3	2	DIVISER	5	0	DWARF		4	ENJCYMENT	6	6	EXPERIMENT	4	6
DICTATE	5	5	经基本条件 员	Ü	5	DWELL	-	3	ENLARGE	0	6	EXPERT	5	5
DICTATION	4 6	ě	96391280	3	2	DWELLER		2	ENNOBLE Engradus	0 5	6 5	EXPLAIN	5	3
DICTATOR DICTION	ů	e &	DIVISOR	4 6	6	DYKE DYKE	-	3 6	ENROLL	0	4	EXPLANATION EXPLCDE	4	4
DICTIONARY	š	3	DIYOKCE DIYOK	5	3	DYNAMIL		۵	ENROLLMENT	6	ŭ	EXPLORATION	ó	õ
DIESEL	5	à	00	ő	2	DYNAMITE		4	ENSIGN	ó	5	EXPLORE	ž	4
DIET	4	á	DOCTRINE	õ	6	LAGER	5	3	ENTER	3	3	EXPLORER	4	5
DIFFER	5	Q	DOCUMENT	6	5	EAGERNESS		5	ENTERTAIN	ť	÷	EXPLOSION	5	6
UIFFERENCE	3	2	DDDGE	3	3	EARDRUM		0	ENTERTAINMENT	6	5	EXPLUSIVE	5	6
DIFFICULT	4	3	DOE	3	4	EARN		3	ENTHUSIASTIC	Ó	6	EXPONENT	6 5	Ú
DIFFICULTY	4	5 4	DOGHDUSE	3	0	EARNEST		5 4	ENTIRE Entitle	6	3	EXPORT EXPOSE	õ	6
DIGESTION	0	5	DEGWDOD DDLLHGUSE	2	ō	EARTHQUAKE		2	ENTRANCE	5	4	EXPOSITION	ŏ	5
DIGESTIVE	6	ō	DOLLIE	ō	3	EARTHWORM		4	ENTREE	õ	6	EXPRESS	2	2
DIGIT	6	C	DOLPHIN	4	Q	EASE	4 8	6	ENTRY	6	6	EXPRESSION	ð	5
DIGNIFIED	0	6	DOMAIN	t	0	EASEL		0	ENVIOUS	0	6	EXQUISITE	0	6
DIKE	3	2	DOME	2	2	EASILY		•	ENVIRONMENT	5	0	EXTEND	0	6
DILIGENT	c	4	DOMESTAS	6	5	EASTERN		4 0	ENVY Epidemic	6	6	EXTERIOR External	Ö	6
DILL	3	2	DOMINION	0	5 6	EATER EAVES		5	EQUAL	3	3	EXTINCT	5	ŏ
DIM Dimensian	6	6	DOMINO DONATION	Ö	6	EBB		Ó	ECUATION	4	ć	EXTRA	ž	Ž
DIMINISH	ŏ	6	DDNG	4	ŏ	ECHG		6	EQUATOR		4	EXTRACT	Ω	6
CIMPLE	6	3	DOODLE	5	o	ECLIPSE		6	EQUILATERAL	Ģ	0	EXTRACTION	0	6
DIN	3	2	DOOM	3	-	ECONOMIC	6 (EQUIPMENT	3	0	EXTRAGRDINARY	త	6
DINE	3		DOORBELL	5		ECCNGMICAL		5	EQUIVALENT	0	6	EXTRAVAGENT	0	6
DENER	3	Ü	OCERKNO3	4	3	ECONÚMY		6 0	ERA Ere	3	6 3	EXTREME Ey	5	0
DINGY	6	o o	DCCRMAN	0	6	ELSTASY EDIBLE		ő	ERECT	ŏ	37	FAERWIT	5	3
DINGSAUR Didxide	5	ŏ	DOORSTEP	0 5	2	EDITION		5	ERMINE	õ	3	EYEBROW		3
DIP	ź	2	DODRWAY Dope	3	3	EDITOR		2	EROSIGN	6	٥	EYEGLASSES	0	3
DIPHTHERIA	ō	6	DORMITORY	6	4	EDULATE		4	ERR	6	0	EYELASH		3
DIPLOMA	G	6	DOSE	2	2	EDUCATION		3	ERRAND	2		FAEFID	4	.3 5
DIPPER	4	5	TAUCO	3	0	E DUCATIONAL		6 ?	ERRAND-BDY	0	5 5	EYESIGHT FA	2	
BIRECT	4	3	DOUSTFUL	0	4	EEL Effect		Ó	ERRAND-GIRL Error	6	5	FABLE	4	ž
DIRECTION Director	3	5	DOUBTLESS	Ü		EFFICIENCY		5	ERUPT	6	õ	FABRIC	6	6
DIRIGIBLE	ő	4	DUMINSTALKS	5 5	0	EFFORT		2	ERUPTION	Ō	6	PADULUUS	5	Ü
DISABLE	ō	Ġ	ยกไล Draft	5 5	6	EGGPLANT	0 6		ESCAPE	5	3	FACET	4	0
DISAGREÉ	4	5	DRAS	2	_	E I GhTH		3	ESOPHAGUS	6	e	FACIAL	3	0 5
DISAGRELABLE	0	4	DRAGGN	ž	3	EIGHTY	2 3		ESPECIALLY Essay	5	6 D	FACILITY	2	3
DISAPPEAR DISAPPGINT	5	2	DRAGDNFLY	5	0	EJECT EL		0	ESSENTIAL	õ	5	FACT FACTION	ő	4
DISAPPCIATMENT	-	6	LRAGSTER	3	0	ELABGRATE		6	ESTABLISH	6	6	FACTOR	4	2
DISAPPOINTHENT	Č	4	DRAGSTRIP	٤	٥	ELAPSE	0	6	ESTABLISHMENT	6	6	FACTORY	3	3
DISASTER	ō	41	DRAIN	4	5 5	ELASTIC		5	ESTATE	û	4	FACULTY	4	õ
DISBELIEVE	9	4	DRAINAGE Drainbgapd	6	0	ELBOW	3 2		ESTIMATE	0	5 3	FAD	3	3 5
DISC	5	Q	URAKE	4	3	ELDER		0 6	ETCH E T CHING	9	5	FADE FAG	5	õ
DISCHARGE	3	0	DRAM	4	5	ELDEST Elect		4	ETERNAL	6	6	FAGGED	ó	3
DISCONTENT DISCOUNT	6	6	DRAMA	5	6	ELECTION		4	ETYMOLOGY	ŏ	6	FAIL	2	
CISCOURAGE	o	5	DRAMATIC	6	4	EL ECTRIC	3 (0	EVAPORATE	4	3	FAILURE	6	5
		5	DRAMATIZE	3		ELECTRICAL		6	EVAPORATION	6	c	CAIN	3	
CISCOURAGEMENT	-	-			3	ELECTRICIAN	٠ ن	5	EVE	3	5	FAINT	4	2
DISCOVER	3	3	DRAPS Drapery					4		-	4.	EATON TALE	-	3
DISCOVER Discoverer	3	3 5	DRAPERY Draught	5 0	4	ELECTROCUTE	0 (EVENT	3	4	FAIRY-TALE	Ω	
QISCOVER DISCOVERER DISCOVERY	3 0 4	3 5 4	DRAPĒRY Draught Drawn	5 0 6	4 6 3	ELECTROCUTE ELECTRON		0	EVERGREEN	3 3 0		FAIRY-TALE FAIRYLAND FAITH	2	3
QISCOVER DISCOVERER DISCOVERY DISCUSS	0 3 0 4 4	3 5	DRAPERY Draught Drawn Dray	5 0 6 5	6 3 3	ELECTROCUTE	4 (0		3	5	FAIRYLAND	2	3
QISCOVER DISCOVERER DISCOVERY	3 0 4	3 5 4	ORAPERY DRAUGHT DRAWN DRAY CREAD	5 0 6 5 6	4 6 3 3	ELECTROCUTE ELECTRON ELECTRONIC ELEGANT ELEMENT	4 (6 ! 5 (0 5 0	EVERGREEN EVERLASTING EVERMORE EVERSHARP	3 0 0 0	5 6 3	FAIRYLAND FAITH FAITHFUL FAKE	0 2	3 2 2
QISCOVER DISCOVERER DISCOVERY DISCUSS DISCUSSION	03044656	35445540	ORAPÉRY DRAUGHT DRAWN DRAY CREAD UREADFUL	5 0 6 5 6	4 6 3 3 4	ELECTROCUTE ELECTRON ELECTRONIC ELEGANT ELEMENT ELEMENTARY	4 (6 ! 5 (0 5 5 0	EVERGREEN EVERLASTING EVERMORE EVERSHARP EVERY	3 0 0 0 2	5 6 3 0	FAIRYLAND FAITH FAITHFUL FAKE FALCON	2 0 2 3	3 2 2 4
QISCOVER DISCOVERER DISCOVERY DISCUSSION DISCUSSION DISCOST DISCOST DISCOST	030446560	3 5 4 6 5 4 0 2	DRAPERY DRAUGHT DRAWN DRAY CREAD UREADFUL UREAMLAND	5 0 6 5 6 0	4 6 3 3 4 3	ELECTROCUTE ELECTRON ELECTRONIC ELEGANT ELEMENT ELEMENTARY ELEVATE	4 (6 5 5 (4 5	0 5 5 6 6	EVERGREEN EVERLASTING EVERMORE EVERSHARP EVERY EVERYDAY	3 0 0 0 2 4	5 6 3 0	FAIRYLAND FAITH FAITHFUL FAKE FALCON FALLEN	2 0 2 3 0	3 2 2 4 4
QISCOVER DISCOVERER DISCOVERY DISCUSS DISCUSSION DISCUSSION DISECT DISECT DISCOVERY DISCOVERY	0304465600	3 5 4 5 4 0 2 5	ORAPÉRY DRAUGHT DRAWN DRAY CREAD UREADFUL	5 0 6 5 6	4 6 3 3 4	ELECTROCUTE ELECTRON ELECTRONIC ELEGANT ELEMENT ELEMENTARY ELEVATE ELEVATION	4 (6 ! 5 (4 !	0 5 0 5 4 3	EVERGREEN EVERLASTING EVERMORL EVERSHARP EVERYDAY EVERYDAY EVERYDIME	3 0 0 0 2 4 3	5 6 3 0 0	FAIRYLAND FAITH FAITHFUL FAKE FALGON FALLEN FALLOUT	2 0 2 3 0 5	3 2 2 4 4 0
QISCOVER DISCOVERER DISCOVERY DISCUSS DISCUSSION DISEASÍ DISECT DISGRACE DISGRACE DISGUSE	03044656006	3544540256	ORAPERY DRAUGHT DRAWN DRAY CREAD UREADFUL UREAMLAND DREARY DREARY OREDSE DRENCH	5065600660	4633343554	ELECTROCUTE ELECTRON ELECTRONIC ELEGANT ELEMENT ELEMENTARY ELEVATE ELEVATION ELEVATOR	4 (6 5 5 (0 4 4 4	0 5 0 5 6 4 3	EVERGREEN EVERLASTING EVERMORE EVERSHARP EVERY EVERYDAY EVERYTIME EVICENCE	3 0 0 0 2 4	5 6 3 0	FAIRYLAND FAITH FAITHFUL FAKE FALCON FALLEN FALLOUT FALLOW	2 0 2 3 0	3 2 2 4 4
QISCOVER DISCOVERER DISCOVERY DISCUSS DISCUSSION DISEASI DISECT DISGRACE DISGRACE DISGUSS DISGUSS	030446560060	35445402566	DRAPERY DRAUGHT DRAWN DRAY CREAD UREADFUL UREAMLAND DREARY DREARY DREDSE DRENCH DRESSING	50656006600	46333435543	ELECTROCUTE ELECTRON ELECTRONIC ELEGANT ELEMENT ELEMENTARY ELEVATE ELEVATION ELEVATOR ELEVATOR	4 (6 5 5 (0 4 4 4	0 5 0 5 4 3	EVERGREEN EVERLASTING EVERMORL EVERSHARP EVERYDAY EVERYDAY EVERYDIME	3 0 0 0 2 4 3 6	6 5 6 3 0 0 0 6	FAIRYLAND FAITH FAITHFUL FAKE FALGON FALLEN FALLOUT	2 0 2 3 0 5 6 0 2	322440042
QISCOVER DISCOVERER DISCOVERY DISCUSSION DISCUSSION DISEASI DISECT DISGRACE DISGUSSE DISGUSSE DISGUST DISHONEST	03044656006	3544540256	DRAPERY DRAUGHT DRAWN DRAY CREAD UREADFUL UREAMLAND DREARY DREARY DREDSE DRENCH DRESSING	506560066006	463334355430	ELECTROCUTE ELECTRON ELECTRONIC ELEGANT ELEMENT ELEMENTARY ELEVATE ELEVATION ELEVATOR	6 9 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0 5 0 5 4 3 4 4	EVERGREEN EVERLASTING EVERMORL EVERSHARP EVERY EVERYDAY EVERYTIME EVICENCE EVICENT	3 0 0 0 2 4 3 6 0 5 3	45630006540	FAIRYLAND FAITH FAITHFUL FAKE FALCON FALLEN FALLOUT FALLOUT FALSEHOOD FAME FAHILIAR	2 0 2 3 0 5 6 0 2 0	3224400425
QISCOVER DISCOVERER DISCOVERY DISCUSS DISCUSSION DISEASI DISECT DISGRACE DISGRACE DISGUSS DISGUSS	030446560060005	35445402566550	ORAPERY DRAUGHT DRAWN DRAY CREADFUL DREAMLAND DREARY OREDSE DRENCH DRESSING DRIFT	5065600660065	4633343554303	ELECTROCUTE ELECTRON ELECTRONIC ELEGANT ELEMENT ELEMENTARY ELEVATE ELEVATION ELEVATOR ELEVATOR ELEVENTH ELF ELIMINATE	4 6 5 6 5 4 0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0055	EVERGREEN EVERLASTING EVERMORE EVERSHARP EVERY EVERYDAY EVERYTIME EVICENCE EVIDENT EVIL EWE LXACT	300024360534	456300065404	FAIRYLAND FAITH FAITHFUL FAKE FALCON FALLEN FALLOUT FALLOW FALSEHOOD FAME FAMINE	20230560200	32244004256
QISCOVER DISCOVERER DISCOVERY DISCOVES DISCUSSION DISEASÍ DISEAT DISGRACE DISGRACE DISGUSE DISGUSE DISGUST DISH-TOWEL DISHONUR DISHONUR DISKASHER DISK	0304465600600053	35445402565555	ORAPERY DRAUGHT DRAWN DRAY DREAD UREADFUL UREAMLAND DREARY DRECTE DRECTE DRESSING DRID DRIP DRIP DRIP	50656006600652	463334355430	ELECTROCUTE ELECTRON ELECTRONIC ELEGANT ELEMENT ELEMENTARY ELEVATE ELEVATION ELEVATOR ELEVATOR ELEVENTH ELF ELIMINATE ELK ELL	4 6 5 4 0 4 4 2 6 2 4	005505543344420552	EVERGREEN EVERLASTING EVERNORL EVERSHARP EVERY EVERYDAY EVERYTIME EVICENCE EVICENT EVIL EWE LXACT EXACT EXACT EVERLASTING	3000243605346	4563000654045	FAIRYLAND FAITH FAITHFUL FAKE FALCON FALLEN FALLOUT FALLOW FALSEMOOD FAME FAME FAMILIAR FAMINE FAMISH	202305602006	322440042560
QISCOVER DISCOVERER DISCOVERY DISCUSS DISCUSSION DISEASI DISECT DISGRACE DISGRACE DISGUISE DISHOTOWEL	03044656006000533	3544540256655055	ORAPERY DRAUGHT DRAWN DRAY CREADFUL DREAMLAND DREARY OREDSE DRENCH DRESSING DRIFT	5065600660065	46333435543032	ELECTROCUTE ELECTRON ELECTRONIC ELEGANT ELEMENT ELEMENTARY ELEVATE ELEVATION ELEVATOR ELEVATOR ELEVATOR ELEVATOR ELE ELIMINATE ELK ELL ELLIPTICAL	4 6 5 4 0 5 4 4 2 6 2 4 6	005505543344	EVERGREEN EVERLASTING EVERNORL EVERSHARP EVERY EVERYDAY EVERYTIME EVICENCE EVICENT EVIL EWE LXACT EXACT EXAGGERATE	30002436053464	45630006540450	FAIRYLAND FAITH FAITHFUL FAKE FALCON FALLEN FALLOUT FALLOW FALSEMOOD FAME FAMILIAR FAMINE FAMISH FAMISH	20230560200	3224400425605
DISCOVER DISCOVERER DISCOVERY DISCOUSS DISCUSSION DISEASE DISECT DISGRACE DISGUSS DISGRACE DISGUSS DISH-TOWEL DISHONEST DISHOMEST	030446560060005330	3546540256555554	ORAPERY DRAUGHT DRAWN DRAY CREADFUL DREAMLAND DREARY ORLOSE DRENCH DRESSING DRIFT URIP DRIVEN GRIVEN GRIVEN ORGOL	50656006500650056	46333435543032560	ELECTROCUTE ELECTRON ELECTRONIC ELEGANT ELEMENT ELEMENTARY ELEVATE ELEVATION ELEVATOR ELEVATOR ELEVENTH ELF ELIMINATE ELK ELL	4 () () () () () () () () () (005505543344420552	EVERGREEN EVERLASTING EVERNORL EVERSHARP EVERY EVERYDAY EVERYTIME EVICENCE EVICENT EVIL EWE LXACT EXACT EXACT EVERLASTING	3000243605346	4563000654045	FAIRYLAND FAITH FAITHFUL FAKE FALCON FALLEN FALLOUT FALLOW FALSEMOOD FAME FAME FAMILIAR FAMINE FAMISH	202305602006034	322440042560530
QISCOVER DISCOVERER DISCOVERY DISCUSS DISCUSSION DISEASI DISECT DISGRACE DISGRACE DISGUISE DISHOTOWEL	03044656006000533	3544540256655055	ORAPERY DRAUGHT DRAWN DRAY CREAD UREADFUL UREAMLAND DREARY DREOSE DRENCH DRESSING DRI DRIFT URIP DRIVEN GRIVENAN DRGOL DRGOL DRGOL	506560066006520565	463334355430325603	ELECTROCUTE ELECTRON ELECTRONIC ELEGANT ELEMENT ELEMENTARY ELEVATE ELEVATION ELEVATOR ELEVATOR ELEVATOR ELEVATOR ELEVATOR ELF ELIMINATE ELK ELL ELLIPTICAL	4 (6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	00550554334442055202	EVERGREEN EVERLASTING EVERNORL EVERSHARP EVERY EVERYTIME EVICENCE EVIDENT EVIL EWE LXACT EXACT	300002436053466065	45630006540450304	FAIRYLAND FAITH FAITHFUL FAKE FALCON FALLEN FALLOW FALLOW FALSEMOOD FAME FAMILIAR FAMINE FAMISH FAMISH FAMISH FAMISH FAMOO FANG FANNY	2023056020060345	3224400425605300
QISCOVER DISCOVERY DISCOVERY DISCOUSS DISCUSSION DISEASE DISECT DISGOTSE DISGOTSE DISGOTSE DISGOTSE DISH-TOWEL DISH-TOWEL DISHOMEST DISH-MASHER DISK DISK DISK DISK DISK DISK DISK DISK	0304465600600053300	35465402565555546	ORAPERY DRAUGHT DRAWN DRAY CREADFUL DREAMLAND DREARY ORLOSE DRENCH DRESSING DRIFT URIP DRIVEN GRIVEN GRIVEN ORGOL	50656006500650056	463334355430325603	ELECTROCUTE ELECTRON ELECTRONIC ELEGANT ELEMENT ELEMENTARY ELEVATION ELEVATION ELEVATOR ELEVATOR ELEVENTH ELF ELMINATE ELK ELL ELLIPTICAL ELMC	4 (6 5 C C C C C C C C C C C C C C C C C C	0055434420552024	EVERGREEN EVERLASTING EVERMORE EVERSHARP EVERY EVERYTIME EVICENCE EVIDENT EVIL EWE LXACT EXACTLY EXALT EXALT EXALT EXALT EXALT EXAR	3000243605346606	45630006540450304	FAIRYLAND FAITH FAITHFUL FAKE FALCON FALLEN FALLOUT FALLOUT FALLOUT FALSEHOOD FAME FAME FAMILIAR FAMINE FAMISH FAMISHED FAMCUS FANG	202305602006034	3224400425605300



									- 1	٤	ç	GME#C	E State S
ikha" Kē	.,	(3)	ି ନିର୍ମ୍ୟ କ୍ଷ୍ୟୁ ବ୍ୟୟ କ୍ଷୟ ମଧ୍ୟ ପ୍ର	į	<u>.</u> 3	FORNEL FORSAr		-	32 - 38 85 1	÷	Č	GieL	4
REWEL'.	-	5	FLANK	5	5	FURSAKEM	د د		2445	7	2	JAC.	ء
RMNUUSE	5	<u>د</u> د	FLANNE.	5	-	FORTIF#	e :		uall Sali ani	# %	á	GG8 Gullin	7
rmyard Scinate	0 5	ŭ.	≻lu. FaARE	ć	Ð	PORTURATE		5	GALLERY	3	ં	GOCAR	ŕ
SHION	5	5	FLASH	2	2	FUATUME		5	GALLET	5	6	660	2
TENER	0	έ	FLASHLARD	4	0	FURTY-EIGHT		ز 3	GALLON GALLOWS	.5 (:	2 6	GODDESS GUSFATHER	0
STER Të	3 3	ე 2	FLASHLIGHT FLASK	ж б	5	FORTY-FIVE		, 3	GALUSHES	ũ	5	CONCTHER	Č
re THOM	5	å	FLATROAT	č	8	FORS /-NINE	+ ()	GANGLE	4	4	GOLDENFOO	Ċ
IGUE	۵	6	FLATIRON	0	6	-URIY-ONE	-	3	GANDER	3 4	3 2	GOLDFINCY	6
LT	5	3	FLATTER	0 3	3 3	FORTY-SIX FORTY-: REE))	GANG GAP	4	2	COLOFISH "OLFBALL	į
ILTY IOR	0 5	6 4	FLAYGR FLAX	3	2	FORTY-THE		3	GARB	6	ō.	GUNDELA	(
ORASI S	õ	5	FLAY	3	ō	FORWARD		ż	GARDENER	6	3	GONG	4
ORITE	3	6	FEEA	3	5	FOSSIL)	GARDENIA	6 3	0 3	348-2005 348-2006	:
in .	3	3	FLEU	é	څ	FOSTER		3 3	GARDNER Gargle	5	õ	GOOD-DAY	
r R	2	نے	FLEE	3 0	2	FOUL FOUNDATION		2	GARLIC	6	5	6000846	
RFUL	7	6	FLEECE FLEET	4	ź	FUUNDEK	_	5	GARMEN:	4	ز	GOODNESS	
ST	3	2	FLESH	3	4	FOUNDRY		5	GARRÉT GARRISON	C	2 6	GOPHER GORE	
1	4	2 4	FLEXIBLE	0	5	FOUNTAIN-PEN	-	4	GARTER	ŏ	3	GORGE	
ITURE ERAL	ð	5	FLICK FLIGHT	4 2	0	FOURSCORE FOURSQUARE		5	GAS-HASK	0	5	GURGEOUS	
ENAL	š	ž	FLINCH	Ĝ	ō	FOURTEENTH		4	GASEOUS	0	6	GURILLA	
BLE	Q	4	FLING	2	2	FOURTH	2	2	GASKET	6 5	0	GOSSIP	
LING	ě	0	FLINT	3	2	FLWL		2	GASP GATEWAY	ő	6	GDUND GDYERN	;
LOBREN	6	1) 6	FLIP FLIPPER	2	3	FRACTION Fractional	-	4 6	GATHER	4	2	GUYERNENT	
IALE	2	4	FLIPPER	5	3	FRACTURE		G	GAUGE	4	0	GOVERNUR	
ININE	G	6	F'.IT	0	3	FRAGILE	4	5	GAUZÉ Gay	2	6	GRACE	
l INER	0 3	3	FLCAT	2	2	FRAGRANT		5	GAZF	4	5	GRACEFUL Gracious	
ider Iret	0	6	FLOCK FLOG	j	2	FRAIL		5 2	GEAR	3	3	GRAD	
TILE	6	6	F1.86 F4.000	3	2	FRAME Frank		2	GELDING	5 3	0	GRACER	
TILIZE	Ó	6	FLORIST	5	4	FRANKFURIER	0	4	GEM GENDER	0	5	GRADIIAL	
ITILIZER STIVAL	5 5	5	FLOSS	0	4	FRANTIC	_	0	GENERAL	3	3	GRADUATE GRADUATION	
CH	5	ž	FLÖUNDER FLOURISH	ō	6	FRAY	0	5	GENERALLY	0	5	GRAFT	
É	Ō	4	FLOW	2	2	FREAK		4	SENERATION GENERATOR	6	ن 0	GRAM	
LOCK	6	0	FLCHN	3	3	FREE	_	2	GENEROUS	5	5	GRAMMAR	
ER	5 3	3 3	FLUÉ	2	6	FREEDOM	3	4	GENIUS	4	S	GRAND Grandchild	
ER	4	6	FLUFF	3	0	FREEWAY	-	0	GENT	6 3	2	GRANDEUR	
ERGLASS	6	Ó	FLUFFY	5	4	FREEZER	-	0	GENTLÉ GENTLEMAN	6	3	GRANDHOM	
TION	4	5	FLUID	5 5	0	FRENCHFRY FREQUENT	6	5	GENTLEMEN	4	ó	GRANDSON	
. 0.0	0	3 5	FLUNG Flunk	3	6	FRESHMAN	ō	5	GENTLENE'S	0	5	GRANDSTAND	
LDER LDTRIP	5	ő	FLUSH	5	4	FRET	6	2	GENTRY	0	0	CRANGÉ GRANITE	
ND	5	0	FLUSTER	6	0	FRIAR	٥	3	GENUINE GECGRAPHIC	e 5	5	GRANT	
ERCE	5	5	FLUTE	5	3	FRICTION FRIENDLY	5	5	GEGGRAPHICAL	ō	5	GRAPEVINE	
ERY	4	2	FLUTTER Flyer	0	3	FRIENDSHIP	5	4	GECGRAPHY	3	3	GRAPH Graphic	
FE FTH	2	2	FLYLEAF	ŏ	6	FRIGATE	0	6	GEGLOGIST	4	Ú	GRAPHGPHÉME	
FTY-JNE	4	0	FLYWAY	4	Q.	FRIGHT	2	2	GEGLOGY GLCMETPIC	6	0	GRASP	
TY-TWG	4	0	FOAL	3	0	FRIGHTEN FRIGHTFUL	3	2	SECMETRY	6	6	GRASSLAND	
; HTER	2	2	FOAM FOCUS	5	û	FRIGID	ŏ	4	GERUNO	6	G	GRASSY GRATE	
SURE	4	2	FOE	3	2	FRILL	6	Ģ	GHASTLY	ŧ.	0 3	GRATEFUL	
AMENT	5	0	FOG	2	2	FRO	ŧ	9	GHŪŠT GIG	5	2	GRATITUDE	
BERT	4	0	FOGGY FOIL	Q 3	6 3	FROCK FROLIC	0 3	3	GIGANTIL	6	9	GRAVE	
.E LLER	2	2	FULLER	3	-	FRONTIER	4	6	GIGGLF	4	6	GRAVEL Gravestone	
LLY	4	ŏ	FOLIAGE	ō	6	FRONTROUM	6	e	<u> </u>	Ž	2	GRAVEYARC	
M	2	5	FOL16	Q	6	FRONTWARE	5	6	GILT GIN	0	6 6	GRAVITY	
LTER	5	6	FULK	3		FROSTY	5 2	Q 2	GENGER	2	2	GP AVY	
LTHY V	0 2	5	FOLLOWER FULLOWING	0	6	FRCWN Fry		2	winger-Ale	٥	5	GRAZE GREASE	
i NAL	4	3	FOLLY	6	5	FRYER	6	9	GINGHAM	0	5	GREASY	
MALLY	4	ō	FUND	3	2	FRYING-PAN	Ō	ê	GIRBLE GIRL - SCOUT	4	6	ourAno Inanc	
NANCE	6	9	FORDSTUFF	0	6	FUDGE FUEL	4	5	GIRL-SCOUT GIRLFRIEND	4	0	i.c.inak	
IANG IAL	0	6 0	FOOLISH FOOTPRINT	2	5	FUEL	6	,3 0	GIRLSCOUT	4	ō	GREATER GREATNESS	
NCH NDER	و <u>څ</u>	Ç	FORAGE	Õ	4	FULCRUM	4	ō	GIRTH	6	0	GREATNESS GREED	
DED.	6	6	FORBADE	0	5	FULFILL		6	GIYEN Gizzard	3 &	2 0	GREEDY	
1	2	?	FORBIO	0	4	FULLBACK	0 5	ა 3	GIZZARU	5	5	GREENHOUSE	
RE-ALARM	0	4	FORBIODÉN Force	0	4 5	FULLY FUMBLE	5	3 3	GLACE	5	3	GREET THE	
RE∽ORILL RE∽ESCAPE	0	3	FORD	5	5	EñaE	6	è	GLADNESS	9	E	GREETING Grey	
REBALL	5	ó	FORE	2	2	FUMIGATE		3	GLANCE	5 5	3	GRID	
RECRACKER	5	6	FORECAST	6	0	FUNCTION	-	û 3	GLAND GLARE		3	GRIDDLE	
REDRILL	4	0	FOREFATHER	0	6	FUND Fundamental	5 0	3	GLASSFU!	Ó	4	GRIEF	
REFLY	0	3	FCREFOOY FOREHLAD	0 5	_	FUNERAL	5	5	GLASSHARE	0	þ	GRIEVE GRIEVOUS	
REHOUSE REMEN	2)	FOREIGN	5	3	E E-NG I	5	Ċ	G AZE	6	5	GRILL	
ETRUCK	4	Ó	FEREI.CCK	5	0	FUNGUS	-	Ç O	GLAZIER GLEAM	4	ō	URIM.	
KEWUKKS	6	4	FUREMAN	0	5	FUNNEL	6 6	4	GLEAN	Ċ	5	GRIME	
RM	4	3	FORENCON FORESEE	0	3 6	FURIGUS FURL	ő	3	GLEE	4	ć	URIN CRIND	
RSTAID	4	0	FURESIGHT	ŏ	6	CURNISH	ō	3	GLEN	6	5 0	GRÎND GRÎP	
SHBGWL SHER	5	0	FOREST	Ž	2	FURROW	0	3	GLIDE GLIMMER	ũ	5	GRIPE	
SHERIES	ō	5	FORETHOUGHT	0	6	FURRY	3	Û 4	GLITTER	5	6	GPIT	
SHERMAN	4	2	FOREVER FORFEIT	3	3 6	FURTHER FURY	6	0	GLCAY	5	ō	GKIZZLEC	
SHANGPELF	5	0	FORGE	0	5	FUSE	3	3	GLCB	3	0 3	GROCER	
SSIUM	6 2	0	FORGET-ME-NUT	ŭ	5	FUSELAGE	6	0	GLCBE	2	3	UNSCH	
ST TNESS	3		FUNGIVE	4	3	FUSS	2	2	GL C.SM GL C.C.MY	4	4	GROPE	
∧g 14£22	ž		FORGIVEN	0	5	FUTURE FUZZ	3 4	3	GLGRIOUS	Ó	5	GRESS	
XYCRE	6	6	FORGIVENESS	0	4	-075 	5	0	ULCRY	3		GRETTO	
AGPULE	4		FORLORN FORM	5 2	0	GABLE	Ö	6	ULCSS	ć	5	GRÐUCH GRÐUCHY	
AGSTAFF	G 3	ė O	FORMAL	6		GADGET	3	0	uliSSY ulim	ý	3	LRCUND-HGG	
AIR Ak	3 5	0	FORMATION	4	6	GAG Gain	3	2	GNAT		2	GH "UNDHOG	
	•	2	FORMER	4	5	~ m 4 'T	_	-	GNAH	0	3	GREUP	



The state of the s

													5 .
											_	स्ट्राकड्कण र [ा] ४	
39035° 3803°	ن د	۔ د	~ 50 50 51 5 5 ~ - 40 5 5 5 1 5 5 ~		,	+846 ~34631	2	-	10551 588 4056	À	s Ç	inSECY	;
CRUAF	- 4	•	ready.v/=1-4 next	Ö		7.1234Ex milest v that	٠,	بد 2	glegia Nggara		s U	i Noeras lei Triseat	į.
Great Great	3	ĉ	HERL TH	<i>;</i> ·	3	THE MESTAGE		9	IGAITIL ICNORANC	:	Ç	INSITY INSPECT	0 S
Granda Granda	5	٤	REALTHETH HERE	6 3	" ≥	HU. EAENERFE	3	2	11	5	2	THISPER FIELD	
G2 L5	3	2	HEARSE HEARTY	6 5	3	HONOR HONORAE' 5	3	2 5	I''' GAL ILL' ISS	0 U	/• 5	INSPECTOR INSPIRATED	4 4
GRUMBLE GRUMPY	5	5 Ω	HEAT	2	3	4000	4	2	ILLUSTRATE	3	1	INSPIRE INSTANCE	6 Q
GRUNT GUARANFEE	4 U	3	HEATER HEATH	2	3	HOUP	4	2	ILLUSTRAT": IMAGE	0	Ó	1-STANT	5 5
GUARD	2	خ	HEATHER HEAVE	ė į	Q J	HCUI HC?EFUL	3	2	imaginary Imagination	0 4	6	instinct Instruction	C 6
GUARDIAN GUEST	6	5 3	HEAVEN	2	2	hOPPF *	4	-	MATTNE	•	ŝ	INSTRUCTOR	6 C
GUIDE GUILTY	4 6	5	nEDGE HFDGEHOG	5	4) 3	HOF.LOTCH HORIZON	ã	3 E	INITATE MMEC WIF	0	6 4	INSTRUMENT INSULATION	5 0
GUINEAFTS	3	0	HEED	6	2	1 IZONTAL HERHON	3	۰ ۵	immediately Immense	6 6	() 5	insulator Insult	0 6 6 4
GUTTAR GULF	3	() ÷	HEIFER	5	<u>ن</u> 2	HOT " ET	4	5	EMMEGRANT	Ç	4	INSURANCE	5 5 6 C
GOLTA GOLT	6	9	HEIR HEIRES	r U	3 6	HORRID	5	ن ن	IMMORTAL IMP	Ú 5	6 5	INTEGER INTEGE 74	3 0
GULP	5	4	HELD	3	2	HORROR Hurse-Radish	3	4	IMPATIERT IMPERATIVE	é	6 4	intellestual Intelligence	6 0
SUMPOWDER GUPPY	6	5 0	⊬E! ICCPTER HE! IUM	5	C	HORSEBACK	4	3	IMPERIAL	0	6	INTELLIGENT	5 5
GUST	5 3	4	HELL HELM	2 G	3	HDR CEFFY HDR CEFFY	Ō Ō	5 ≙	implement Smply	0	ć G	INTEND Intense	5 3 C 6
GUT GUT7ER	5	3	HELMET	4	6	HGRSEPOWER HGS1ERY	0	6	IMPOLITE IMPORT	0 5	6 5	INTERCEDE Intercom	4 0
Gynasium Gynasium	2	0 4	HELPHUL HELPLESS	3	4	HOST	2	3	IMPORTANCE	e	5	INTEREST	2 4
GYMNASTICS.	0	2	HEMISPHERE HEMLOCK	5 4	4 6	HOSTESS HOSTILITY	2	6	IMPORTANT IMPOSSIBLE	2	4 0	JATERESTING INTERFERE	0 3 0 9
GYPSY HABIT	5 3	3	HEMSTITCH	0	6	HOTOGG	3	0	IMPRESS	0	6	INTERIOR	6 6
HACK	3	2	HÉNGÉ HENGEFORTH	0	5 6	HOTLUNCH HOTROD	5 4,	0	IMPRESSIEN Impreson	ö	à	INTERJECTION INTERMEDIATE	6 5
HACKAMORE HAG	3	2	HERB	4	Ğ	HOUR	3	2	IMPROPER IMPROVE	3	5	INTERN Internal	6 C
HAIL HAIR-NET	2	2	HERD HERDSMAN	Q	6	HOUSEHOLD	6	5	IMPROVEMENT	5	•	INTERNATIONAL	4 5
HAIR-RIBBON	ō	6	HEREAFTER Hereby	0	5	HOUSEKEEPER HOUSEWIFE	3	5	IMPUDENT INADEQUATE	0	5	INTERPRET Interrugate	J 6
HAIRBAND Haircut	3 5	3	HEREIN	0	3	HOUSEWORK	O	6	INAUGURATE	G	9	INTERROCATION	0 6
HAIRURESSER	Q	6	HERMIT HERO	2	5 3	HOVEL HOVER	6	6	INAUGURATION INCENSE	0	6 6	INTERROGATIVE INTERU: BAM	5 5 0 5
HAIRPIN Hairy	4	0	HEROIC	ō 6	6	HÖMDY However	5	0	INCH INCIDENT	4	2	INTERVAL Interview	0 6 0 6
HALE HALF-DOLLAR	4 6	5	HERDINE HERRING	5	3	HOWL	3	2	INCLINE	2	6	INTESTINE	4 6
HALF-MAST	0	6	HESITATE Hesitation	0	6	HUBCAP	5	3	INCLUSE INCLUDE	0 5	4	INTOXICATE INTRANSITIVE	6 Q
HALLWAY	6	6	HEXAGON	4	Q	HL'CKLEBERRY HUE	9	5 2	INCOME INCOMPLETE	0	3	INTRODUCE INTRODUCTION	6 2
HALT	4	2	HICCUP HID	4	0	HUG	2	3	INGCRPCRATE	C	5	INVADE	0 6
HALTER H a lves	ò	4	HIDDEN HIDE-AND-SEEK	0	2	HUGÉ HUL A	5	2	INGERPORATIO. INCORRECT	0	4	INVALID Invent	0 4 4 5
HAM HAMBURGER	2 2	2	HIGH-CHAIR	ŏ	4	HULL HUM	5	2	INCREASE	ō	4	INVENTION	4 2
HAMLET	0	5	HIGH-JUAP HIGH-SCHCDL	0		HUMAN	3	4	ENGREDIBLE 18€JBATOR	4		INVENTIVE	6 5
HAMMOCK Hamper	5		HIGHER	3	Ó	HUMANE HUMANITY	e e		HUSED 1moent	5	2	INVERI Invertebraie	6 0
HAMSTER Handbağ	3 5	0	HIGHJUMP HIGHLAND	გ 5		HUMBLE	Q E		IMPEPENDENCE	5	5	INVEST	å 5
HANDSALL	Ō	4	HIGHSCHDOL HIGHWAY	4		HUMID HUMIDIYY	6	6	INDEPENDENT	5		INVESTIGATE INVESTMENT	0 ♦
HANDGUFF HANDFUL	0	5	HIKE	2	2	HUMMINGBIRU Humer	2	0 5	ENDICATE INCIFFERENT		4	INVINCIBLE INVISIBLE	0 6
HANDICAP	0	4 2	HILARIOUS HILLSIDE	6 5	0	HUMORGUS	6	G	ADIGESTION	6	0	IN: AG	6 0
HANDSOME HANDWRITING	4	4	HILLY	0		HUMP HUMUS	2		INDIGNANT INDIGO		6	IL _NE IGNOSPHERE	5 6 5 C
HANDY Hanger	2 3		HINDER	Ō	6	HUNCH HUNCHBACK	6		INDIRELT	6	Ö	IRIS IRREGULAR	9 2
HAPPEN	2	2	HINGE HINT	÷ 3	3	HUNDREGTH	G	>	INDIVIDUAL INDIVISIBLE	6	3	IRREPRUACHAGE E	0 6
PAPPILY Happiness	6 2		HIP	2	2	HUNGER Hunk	e a		INDCCR INDOORS	•	0	IRRIGATE IRRIGATION	û 6 0 5
HARBOR Harbbali	4	•	HIPPOPUTAMUS Hire	2		HUNTER	3		INDUSTRIAL	4	o	ISLAND	ž ?
HARDSHIP	Ō	5	HISS HISTORIC	4	3	HURDLE Hurray	6	O	IND//STRIGUS Industry	9		ISLE	5 5
HARDWARE Hardwood	6	Ō	HISTURICAL	6	5	HURRICANE HUSBAND	5		INFANT	5		ISTHMUS ITCH	0 5
HARDY	5	0	HISTORY Hive	3	2 2	HUSH		2	INFECTION Inferior	C	5	ITEM	4 6
HARK Harm	2	Ž	MO	4	2	HR2KA HR2K	Ġ	5	INFINITY INFILENCE	6		144 140ka	5 4 2 6
HARMFUL HARMONICA	5	6 5	HDAR HDARD	5	5	HUSTLE	5	6	IF.FLUENZE	G	5	JAS Jack	6 0
HARMONY	5	0	HDARSE HOBBY	4		HUTCH	5	Ġ.	INFORM Informal		3 6	JACK-EN-31 K-BOX	5 0
HARNESS HARP	4		HOBC	5	0	HYACINTH Hydrani	9		INFORMATION		۶ 6	JACKAL Jackass	0 3
HARPEON Harrow	0	5	HOCKEY	3	3	HYDROELECTRIC		0 3	inhadit Irhabitant	0	6	JACKET JACKENIFE	2 2 5 4
HARSH	ū	5	H0D H0G	2	0 2 3	HYDRUGEN	4	Ö	INHALL Inherit	(•	Ġ	JACKPABBIT	5 0
HART Harvest	4 6	۲ 5	HÖLDER HGLIGAY		3 2	MYDROMÉTER Mydroplane	5		INIMPRADE E	Ð	5	JARE JAGGED	6 0
HASH	4	3	HOLLER	6	0	HYENA	0		INITIAL INJECTION	ŧ,		SACIJAS	3 0
HASTE Hasten	4	2	HOLLOW	3	3 2	HYGIENE HYMN	5	5	INJURE	5	ŧ	JAYELEN	6 3
HASTILY	0	6	HOFF AHOC*	G	6	HYPHEN Hypocrifé	6		INJURY INJURYLUS	é	4	JAZZ JEA& DUS	5 5
HATGH HATEFUL	2		HOLSTER HULY	2	3	ICEBERG	õ	2	irk Infstand		?	JEANS	3 11
HATPIN HAUNT	0	5	HOMAGE HOMELIKE	0	6	IGEBUX ILEMAN	ó	?	INAMELL	O	è	167f 1666	2 3 6 4
HAVEN	6	0	HOMELY	5	5	ILESKATE ICING	5		inlang Inlet		G G	JELLYF ISH JERK	2 5
Haw Haw	5 3	4	HDMERUN	5	0	ILY	5	3	inn Inren	3	2	12.57	67 9
HAYCOCK HAYLOFT	0		HOMESILK UMESTEAD	é	5	ID IDEAL	5		INGSSENT	£	5	JESTER Jet	0 5
HEADACHE	5	3	HOMEWARD	G	4	10ENT 1FY	ε,	G	innumerable Thuuire	i) A	é.	15 XEL	4 3
HEACBAND Headboard	3		HOMEWORK HOMINY		2	1010110	5		INCUISITIVE	0	ě	有表别是有效点 T T R N F F T W	6 6 5 4
HEADING	0	3	HOMONAM		0	IDLE	6	4	EWSANE	-1	*5	3 દેવે ⁵ શ્રેષ	8 0



												57 · · · · · · ·
L'eart		65.			() 夏賴亞(()) ()		;	ben 194 A			د د د د د د د د د د د د د د د د د د د	
i ten	-	、 三 5 % 八 元 萬 M	3	7	_ { 24 p²	1	•	MAGNA	ς,	J	MELHATIC	\$
OBBER OCKS/	, ,	; 4484 1 &ME	۲,	z ,	LINDEN Control	ند و•	-	MAGNET MAGNET TIPLE	Ś		MECHANITY MEDA-	5 t
OG	J ,	LAMP	2	•	LINEN	•	5	いならばます	ó	٠.	MEDDLE	ş /
01M)	2 2	LAMPPOSE Lampshade	3	5 6	LINER IINGER		Ţ.	Magnolia Ragise	i.	••	Medical Medical	0 4 5 3
CIST	9 6	LANGE	4	4	Limineri	7	6	MAHDGAMI	.,	5	MEDIUM	3 -
OKE	ž 2	LANCLORD	6	ί.	lining Link	3	3 2	MARDEN	3	3	MEDULLA MEEK	6 (
OKER OLL:	4 0	' ANOSCAPE LANE	2	2	FINDLEUK	õ	6	mein Main	ن 2	3 2	MELLUM	5 3
OSTLE	0 6	LANGUAGE	ż	Ω	LINSEED-CI:	Ç	6	MATHTA	Ĉ	\$	MELQDY	4 6
GURNAL Gurhey	0 5	LANK LANOLIN	ŗ	3	LINT Lipstica	5	4	HAINTAIN HAIZE	Ü	Š	ME CM MEMBER	4
DY	2 2	LAND		2	ilgulü	4		PAJESTIC	6	ő	MFMEERS-141	6
TAENT	5 4 0 5	LASH	4	3	£IQUOR Lime	5	4 5	PAJESTY Malam	0	5	HENBRANE HELICHTO	5 (
JOGE	4 3	LASS Lassié	Ü	3	151	2	4	MAJORETY	6	ల	MEMO	6
JOGEMENT	6 0	LASSO	0	3	ISTENER LITER	3	۵	WWKEND	4	O.	MEKORANDUM MEMORIAL	9 5
JDGMENT JDICIAL	0 5	LATCH Later	3	2	LITERATURE	5	á	Mai arja Male	6 2	3 2	MEMORY	2 4
IDC	5 0	LATH	C	6	LITTER	2 5	2	MALICE	9	5	MENACE MEND	2 2
IG IGGLE	4 2 5 0	LATHER LATITUDE	4	0 4	LIVER LIVER	3	ر ز	MALL MALLAR?	2	0	MENTAL	5 3
GGLER	6 0	LATTER	2	3	LIVERHUR'S	Ü	6	MALLET	0	6	MENTION	\$ 3 2 5
HACY SMOLE	0 4	LAUGHTER	5	4	LIVESTOCK	6	0	MALT Mam	2	2	MENU MERLHANT	2 i
1480	5 0	LAUNCH LAUNLHER	6	จ	LIZARD	ã	4	HAMA	2	ő	MERCURY	• 5
MPER	4 6	LAVA	3	6	LLAMA LD&FER	4	6	MAMMAL.	2	0	MERCY MERE	9 4
MPING-JACK MPROPE	0 3	LAVATORY Lave	4	0	LOAN	4	3	MAMMY Manage	6 5	2	MERIDIAN	•
NCTION	4 5	LAW	2	2	LUAVES	0	3	MANAGEABLE	Ö	4	MERIF Mephalo	9 8 5 8
INGLE INIOR	2 3	LAWFUL Lawnmower	J 4	۵	LÚdBY Lúbster	5 3	ր 5	MANAGEMENT Manager	4 2	5 2	MERRALY	3 3
RISDICTION	0 6	LAWYER	4	3	LOCAL	3	5	MANDGLIN	Ö	£,	MESSAGE	* 3
RY	5 5	LAVER LAZINESS	6	э 6	LOCATE LOCATION	5	4	MANE MANFUL	2	5	messenger Messy	3 3
ISTICE ISTIFY	4 3	LEA LEA	6	2	LOCKET	2	4	MANGANESE	>	â	45356	:
TE	0 6	LEACH	5	Ċ	LOCOMOTIVE LOCUST	6	4 5.	HANGLE	٥	0	#6.18#0855555 961-04	4 5
VENILE NGARGO	6 0 3 5	LEAGUE LEAK	2	2	LODGE	4	3	MANGG MANHOGE	ن	je	HE IT DRICE	4 (
RATE	6 0	LEAN	2	2	LUFT Lofty	5 û	3	MANICUF E	2	5	#5168 487854	1 3 4 3
YAK En	5 û 3 2	LEAP LEASE	2	2	LOGANBERRY	Ö	6	MANKIYU Maniy	12	s U	P.C. SEC	2 5
EPER	2 3	LEASH	4	ő	LOGGER	4	0	MANNER	à	7	e Indicate I PAR Mer	3 4
EPSAKE G	0 é 0 2	LEAST LEAVES	3	2	LOIN Loll	3	2	MARNISH RONLR	i, S	5 9	M.	ેં ટ
LP	5 0	LECTURE	6	5	LGLLIPCP	~	Ö	HANGICH	5		4314	6 3
NNEL	0 6	LED Ledge	2	2	L GLLYPCP LUNE	6	i 2	MARTEL Martle	ć	5	Picader Bicaderom	ا رق
RNEL ROSENE	5 6 0 5	LEDGER	ō	6	LONELY	4.	3	MANTLE MANJEPUTURY	Ś	ئ د.	43 CP .CGPE	< 0
TCH	6 0	LEE	4	0	LONESOME	3	3	TAMUF &CTURE	=	ž	HICRE COPIC NEG	·)
TCHUP YHOLE	5 O O 3	LEEK Leek	0	6	LONGITUDE LOGKING-GLASS		ž	HEAUFELTUREY HANUFSCTURING	0	3	MILDOC	√ .
AKI	0 6	LEER	4	5	LOGKOUT	4	5	posts cripi	0	6	# \$ 000 # \$ 1.6 · \$: 4
CKBALL Dnap	3 0	LEFT-FIELDER Legal	0	5	LCSM	4	3	44P 488	3	÷	MESERON	6 2
DNEY	6 4	LEGENO	5	6	LOLP	-	2	880EL	3	÷	MIONIAM"	. ż
LLDEER	2 0	LEGION LEGISLATIVE	0	6	LOCT	3	رد	به پر در چ ماه شاه در ماه در ماه در	2	2	2:457 4:0814	<i>y</i> 3
LI ER Ln	3 O 4 O	LEGISLATURE	5	6	LOPE	3	Š	MRP13201267 MARISM	:		415(4.)	8 3
LGMETER	6 0	LEI LEISURE	5 0	C &	L C R D L C R D	ž	ò	4ericls	3	•	m _ 44,51511.	8 A
Mcho N	0 6	LEMONADE	3	ۆ	LOSE	3	/	Baring Karing	3 5	s 5	€ 536€	r, å
4CTE	0 4	LEND Length	5	3	r 0?2	4	1	MARKER	*	•	mi juary Mi mahaké	. 0
NDLY	4 3	LENS	5	3	LOTION	4 G	·,	网络尼亚亚亚 西森巴巴亚亚东亚亚	5	G	WILKELF!	·/ 3
NONESS NORED	0 6	LENT	2	2	LEUUSFLAKER	4	#	HAN JUNE HAN JUNE	4,	7.	25 1 1 C	5 0 4 0
1000H	2 2	LECPARG Lectaro	6	4	l Cumbe Luube	5	د 1	·* 有用的是表 · 1.1	, T.	4	##5.424 43.426	5 2
igfisher Ik	0 3 5 U	LESS	2	2	しひしらく	6	3	Marrin Marri	7. 2	5 0	* \$ L ~ & 7 L F.	¥ 9
Ī	2 2	LESSEN LEGI	Ó	6 2	LOVABLE	9	4	MARSH	?	٥	azerzaer. Azerzoa	2 2
ECX BEACU	0 6	LETTER-BCX	C	3	LOVER LOVER	o o	3	rarsha. Paron aleisi	5	Ç ês	made equalses	2 3
ipsack 13	0 3	LETTER-FILE	0	ó ó	FOAINCEA	Ģ	5	MARIYE	Ű	é,	#3 +0% #\$44 =>====	i) =
YE	5 4	LETTER-PRESS LEVEE	0	5	LUBER	eş Cy	4	MARYEL	2	3	miner Miner	. 3
áð El	» ė	FEAST	4	4	LOYAL	5	4	MARVELUUS MASC 11	¢	3	おまいを用作り	4 9
ESOCK	6 C	LEY	0	3 5	LOYALTY LUCKY	Ģ 2	.´	Mascul The	2	à	alalaga alagra	\$ 5 5 \$
LL	0 3 U 3	1148	3	2	100	.3	2	対象など Karry	6	il 6	REMESTAL	3 3
CKERS	0 5	LIBERAL LIBERTY	0	1.	a bill	ō.	5	Ma SY	2	7	mirk Mirkadh	3 2 4 5
CHENALE	0 6	LIBRARIAN	4	ú	LUMBERING	9	3	arsu» Pain	*,	#. 2	HI ROM	3 2
VE VE	9 4 4 0	(12)	3	ė	LUMBERVAPL	Ċ	3	MAS MACRE	ż	ŕ	#135 427 #4451 #61	3. P
WLDEGE	0 3	1100 - 10E	5	5	LUMINUIG LUMA	6 2	٠.	MKS 48	2	*	がもなったせい。 用さらず	1 ?
MLEDGE	3 0	KIEGILHANT	G	5	LUNAP	6		ы437 М252×5	3	7	FE . 1: 51"	÷ 3
an CKLE	5 3	ilfe ilfeoCaT	9	2 5	LUNCHBUX	1	2	ma I		ē	42) (2) 4 24 5	· 2
¥A'	0 5	. SFESAVER	9	4	FONCHASIF FONCH, OM	<u>د</u> خ	ñ	Matr Krieria	ě	ž ý	nstack t	~ .
	2 2 3	LIGAMENT	5 5	2 0	LUKE	3	3	4474	•	,	化色体系 经基础性创新	42 £
EL	3 3	LIGHTAULS Librien	5	ับ ไ	LUKS LUSI	5	3	MATHEMAN IL.	t-		983864A.£	·2 5
CA CRATORY	4 3	LIGH'ER	ò	Ö	* t	4	4	HATURE HATUR, TY	?· 5	ç	6 \$ 76 £ 12 6 42 5 25 5	4 4
Cres Cres	3 5	LIGHTHOUSE	4	i S	i smits i stia	4	4	male	Ĉ,	2	新来岛级神景系统 安吉的C2000年之间的1975年	÷ •
×.	1 2	_16#15-17nm 3.[*&&&7	4	5) 4	MACAKINA	₩	4	网络链 网络罗罗姆亚语	44, 49	j G	HERMOHE IN	· · · · · · ·
igue.≠ 3	0 E 2 Z	1.1 * 6 ME 5 3	è	.5	#45 m 15 m 17 m	î 5	O O	MA VIIKHM! SE	Ğ	9	missie Missie	D 6
2016	ت ت	Lita-Ob- The- Aut	ů,	5. 3	Marmine Com Machiem 167	S Q	0 5	MAYOR	£	3	HI SERAL, C	4 %
) & Po	3 4	7 1 2 4	3	٥	53656886	0	4	MALE MERC	4	3	74 - CF4	÷ 0
æ é Rybug	\$ ^ 2 0) 医明己为期 生 医神色	a Ž	€ Z	MACKE MAGAME	5	5	Maria of the sales the	ú	3	48 3 11 12 13 14 14 14 14 14 14 14 14 14 14 14 14 14	9 6
b	ž ž	LIME	2 *	5	MAUR}	.) .)	÷	MEAL MEANT	Ā. ķ	ž K	41 SLED	A 5
SC) WA	÷ 0	and the second second			*461L						#155116	4 6



The second secon

MENTER A MENTER MENTER MENTER MENTER MENTER MENTER 4.555 1 よななな。 ないな シェ 15" . 12" . A. 12" . A. MUNE 12.7 3, 7 , Phase Associated as the second MISUALL ALL 14222533 MUNTERAL MUNTER 105 aC // . ~ } 3, MITTEN MITTEN MITTEN ,5 1445.1503414 JLE JLE MUSCUAL R Sam C がなって あるのない TAS AGE

FAS MAFE

AMERICAN

SECTION 14367 145 17 141707 53 MUAN HUAT AUAT AUAL HUSCLLAR 607244 MUTERCS-MUSE PLSSAY MUSEUM MOTEO 042355 NOTICE NOTICE NOTICE ; HATE HATTAT OATTONCE , CCCESIM MUSH MUSHROOM MUSIC MUSICAL MUSICIAN HOCK HODE 1 5 3 .000 5 MOTION COUNTY
CONTING
CONTING "AFICHT CATICAT PATIC PATRICT PATRICTIC PATRICTIC PATRICHAN PATRICHAN MODEL MODERATE MOURICH NOURICH ADDERN EST EST EST 600 MUSK 336365 MUSKET MUSKMELDN HOVELTY 5 5 5 HUSKRAT 6 5 MOISINGE MUSLIN MUSS MUSTACH 6 NOWHERE MOLAR MOLASSES HUCLEAR PATRUNEZ= 000 NUCLEUS NUDGE NUGGET 4253000 05 - 20056800 PATTER MOLD MUSTANG MOLDING HUSTARD MUTE 5 30000 HOLECULE HOLE 6260 NUHS PAJERLAY PAUSE NUMERAL NUMERATION NUMERATOR OUTRAGE UUTRAGEOUS PAVE PAVEMENT Õ MUTT MUTTER 20 MOLLUSK MOLLUSK PAN PANN PAYLDAD PAYMENT PEACE OUTSIDER MUTTUN MOLTEN MOM MOMENT NUMEROUS DVAL DVARY DVARROCAT Č. NUN NUNSERY r.YSlenl s NAG NAIL-F & 0 20560 3 6 0 NUTCRALKER MOMMY PEACEABL. PEACEFUL PEACECK DVERGGHE GE ROUS OVFSMALL MONARCH NUTHEC 0 00000 NAKED NAPE AUITY RYLON MONARCHY MONASTERY 3623330 0 HARCUTIC NARROW NASIY 0 02332544644565 MUNGREL MONITOR CGUFALERD PFAK PE**a**l r-crock OYERLAND GYERLAND GYERLAND GYERRIGHT GYELSHIES DATH DEEDLENUS PEARLT-BUSTER NATIONAL NATIONAL NATIONALITY HONK MONGGRAM 60005354223232350240 4265500 PEARLY PEASANT PEAT PEBBLE HONCPLANE HONOPGLY HOMORAIL GBEDIENT 6240 OBEY OBJECT UVIRTARE OVERTURE OVERTURE 2444204604055000554 660 NATIVE 4402500602225 OBJECTION MONSTEUR NATURAL I ZE MONSTER MONSTROUS MONTHLY PECAN PECULIAP OBLIGE BYULE 0550 NATURE OBLANG OBOE UBSCENE DWE UM NAUGHT NAVAL PONUMENT MGGD MODNLIGHT DWNER P'-U 3203526443 NAVIGABLE PEODLEX PEOESTALAN PEULGREE PEES DX DZEN GXER ā RAVIGATE NAVIGATION NAVY NAY DBSERVATION CBSERVATORY CBSE .E OBSTETAN 0640050 0664 MOOR MUCSE UXFORG DXIDIIEW DXVGEN DYSTER PACE PACKEI MOPE ONTAIN PELA NEAT NEATHESS NECESSARY UNTAINABLE PELF
PENHUSINT
DENALTY
PENCE
PENCE
PENCE
CASE
PENCE
CASE
PENCE
PEN OBTUSE CBYIOUS MORAL 6 MGRE MORH MCRNING-GLORY NECESSITY NECKLACE NECKLESS NECTAR DECASION DECUPATION OCCUPY 0 5 6 0 CAS PADOCEK Padocek MURON PAGEANT PAID 00604260 MORRCH G JCCU2 \$000 WG NEEDY GCEANOUR APHY
OCTAGEN
CCTUPUS
CDD
UDDTALL MORSEL 6 PAIN PAINTEDE HORTAN NEGATIVE 28 M 153 W 6 MORTGAGE MOSATO PENADI COR HENINSON A PENANGH IN NEGLECT NEIGH NEIGHBERHOUD PAINTBRUSH PAINTES MGSQUE MGSQUITO DOCK 6004345 PAIAMA JEFENC MAJAPAS PAL PALAGE Princis Princis Princis NEON MOSS MOTEL NEPHES MIT VE LIXVOUS NESTLE OFFENSE 2 ? 00003701070703 OFFER UFFICER MOTH-BALL MOTION MOTORBOAT PERCUIN PENT PENT PERIACLA PECAT PALE PALL PALLEEAPE 5 NET NETTLE NETWORK NEUTRON **GILCLOTH GINTMENT** 5 MOTORCYCLE MOTORIST MOTTO PALM PAMEER 00260 ó 4 4 0 PANEL PANEL GLIVE 4000 GLIVE-OIL OMELET PERFERNING NEVER HELESS #GUL01#6 #GUL01#6 NEW' NIBALE PER MIRIETYE MERCENT PERCENTAGE PERCM UMIT 63035405265565350 MICELY PARIC 623 YALLEY NICK MIECE MIGHTIME NIGHTIME C'NH LYBARD PANTER PANTER PANTRY MOUNTAINCUS OF AL OF ENING OF ERA OPTRATE HUURNEUL PERCUSSITA PERFECT PERFECT HOUST WHE HO HEE HO HEN! HO 9 PANTY 44.0 PAP PAPERULI? MIGHTINGALE 3303222 MIGHTTIME 0608840 PAPERTUREL
PAPERTUREL
PAPERTUREL
PAPORT
PAPORT
PAPORT OPERATION OPERATOR OPERATOR OPERATOR M: MULE PERIL HO'S STAR HON 4 5 Orice NIMETY PERIDOTER PERIOD PERIODE NINTH NAP NIPPLE MON MONER MUNN MUSILAGE MUCH MOFF MUSFIN MUSFIN MUSER MUS MUSER MU **BPBSSUM** PAR 600 OPPORTUNITY OPPOSITE OPPRESS PARECHUTE 660505045 PARADUXICAL PARADUXICAL PARAGRAPH 00 FEREGOICAL BERTSH PERMARENT NIPPY ć RIT NITRATE 255240522 MPFICAL زدن 14560 ORAL SHALLY URBHODE nitrogen Nobility PARAKEET PERPISSION Parallel Paramiliem Parami PEXILI 3346003 400755 MUG PERSON MUG MULL BERRY MULTIFIE MUSTIFIE MUSTIFI MUSTIF MOSLE ngs ngsecless ngminate momfactila nonsense CRATION Ų ORBIT ORCHAN PARCH PERSONAL PARCHMENT PARE PERSONAFILATION S CALHID يتارين وكالإيم

A. C.

ř

J. to 3

ś

5.94

VOZAL.

÷

ERIC

Tan . r - m.

2

3.435

66405332

0

5

ò

2 5

2333361

•5

ó

,

													F
J€_25448 .	•,		1			17 16 1 1 4 5			116455	7	,	1 100	£. \$.
**************************************	į.		ان مراهل ا			1 80,0738 12850 (16	-		м. . ябъ		7	7 9#5	4
\$759	-	-	ับ ป พี่ย์	,	,	79.51 2. 73.85.36.5	÷	~*	າດິ⊍າ,≂ ີ າ -	3	<u>د</u> د	4251	: 3
653.F	;	; >	Peumban Peumbang	j.		FRUFER	è		マラム よう	Ċ	6-	2489688	2 -
resta restan	:	r Š	न् सम् १३ तम्बर	ć	,	ንወይም፤ \ ማጽቴቃር ዚራ	3	ر	#5≰Ç≒8, ~. `∪ ¤∤ ∤	ū	Ç 7	rascai	9 3 6 to
PELUNIA PEN	2	2	Peuroe Peurol	ã	5	PREFIERONS T		2 4	film ication Puplish		31 4,	KASTBERRY	3 5 • 3
PHANTON	٠,	٠,	FLUS	3	£	PREMILIE	š	5	PLB.ISHFU		5	RATE	2 2
PHARMACIST Pharmacy	Q Q	<i>f</i> .	STARCOP NY A	44	9	Preparation Preparation	u G	000	PJDDING PUFF	ž	5	HATING RATIO	4 4
PHASE PHEASANT	£	ن 2	Preumu a Pod	6 6	5 2	PREPARE PREPOSITION	ົງ ຢ	3 6	PUG PULLET	ن و	3	RATICNAL RATTLE	0 5 2 2
PHILDSOPHY	Ç.	5	POEM POEX	2 *	?	PRESENTE	0	5 გ	FULEY	3	\$	RATTLESNAFE BAVE	4 2
PHONE	3	ş	POSINA	3		PRISER/_	Č	*	EULPIT	701	.,	AAVEN	5 5
PHL WAPH PHL J	ĸ	4. 	POISONGIA POISONGIA	5 3	r,	PRESIDE PRE SUIE	0	5 Ç	PULSE PUMICE	,	C	ravemous Ravine	G 5
r ig Ografit Pho 'ografiter	3	5	90100x445 904£ 3	÷	5 0	PREVATI	2	÷	PUNCTUAL	ų O	3 5	RAYCN	2 ê 5 o
PHOTOGRAPHY	÷	9		2 0	3	PREMENCION PRICE	2	6	PUNCTUATE PUNCTUATION	ن 5	6	XAZCR RE	5 5 2 2
PHOTOGYNTHES IS PHRASE	5	4	POLEVALLT	4	0	PRICELESS PRICK	6	6 3	PンNISH	6	4	REACTION	5 0
PHYSIC PHYSICAL	6		POLICE POLICE	Ç	4	PRIDE	4	3	PUNISHMENT PUNK	0 5	6 £	READER	2 2
PHYSICIAN PHYSICS	0	s a	POLIC FOLITE	3	2 0	PRIEST PRIM	6 0	5 6	PUNT PUP	4	0 2	READILY READMIT	0 6
SHAZIOFSCA	Q)	5	POLITENES' POLITIC	j e	3	PRIMARY PRIME	4	3 4	PUPAL PUPPET	3	3	REAL-ESTATE REALIZE	0 5 5 4
Plazza Piccolo	ن د	Ö	PGLITICAL	40	5	PRIMER	0	5	PUNCHASE	0	5	REAP	0 3
PICK-++> PICKER	3	0	Politilian Polka	Q ÷	6 U	PRIMITIVE FRIMROSE	0 ပ	5 3	PURE PURITY	9	2 4	REAPEN Rear	0 6 4 2
PICKET	5	0	POLKADOT POLL	3 2	0 3	PRINCESS	3	2. 2	PURPOSE PURK	5 3	4	REASUNADLE REBEL	0 4 0 6
PECTURESCUE	Q	5	POLLER COLUMN .	5	4	PRINCIPAL PRINCIPAL	,	3	PURSUIT	O	6	RESELLION RESELLIOUS	U 6
PIER PIFRCE	5	3	POLLUTION	*	Š	PRINTER	•	4	PUSHCART Puss	0	2	PEEJILO	0 6
PIGLET	4	a ^	POLO POLYGEN	Ó	o o	PRISM PRISON	t.	0 3	PUSSYCAT PUTT	6	2 0	RECALL REGEDE	4 6 0 6
PIGYALL PARE	4	0	POMPOM POMGEE	4	Ω 5	PRISSIER PRIVATE	5 4	4	PUTTER PUTTY	6	6	RECEIPT RECEIVE	0 5 5 4
PILGRIM	0	3	POGOLE POGOLE	4	o S	Pi 12E	o a	3	PUZZLE	2	2	RECEIVER	υ 0 6 5
PILL PILLAR	6	3	POCH	3	a	PROBABLE	C	5	PYRAMID Quadrilateral	5	5	RECENT RECEPTACLE	0 6
PILLOWGASE PILOT	о 3	3 4	POPE	2	2 3	PROBABLY PROBE	6	0	QUAIL QUAINT	4 0	3	RECEPTION RECHARGE	0 °
PIMENTO PIMPLE	5	5 3	POPPER POPPY	4	6 2	PRCB).EM PROGEEO	2	9 S	QUAKE QUALIFY	0	3 6	RECIPE RECIPROCAL	9 6 6 0
PINE	2	2	POPSICLE Popular	4	0 2	PROCESS	5	5	QUALITY	6	2 5	REC ITAL	6 5
PINEGONE PINETREE	4	Õ	POPULAR	0	4	PROCESSION PROCLAIM	5 5	3 3	QUANTITY QUARANTINE	Ó	5	RECITATION RECITE	6 3
PINGPONG PINNACLE	5	0 5	PORCELAIN	e e	6	PROCLAMATION PRODUCE	Ů.	6	QUARREL QUARRY	0 6	3 6	KE <u>s</u> kon Recognize	3 6 0 6
PINT PINTO	2	2	PORCUPINE PORE	4	.3 6	PRODUCER PRODUCT	Ç	6 3	QUART Quarterly	3 0	2	RECOMMENS RECONSTRUCT	. 3. 4 6
PICNEER PIP	4	3 2	PORK PORK-CHOP	3	5	PRODUCTION	4	Q	CUARTER	0	4	RECCROER	0 3 0
PIPEP	6	2	PORKCHOP	5	Ö	PRODUCTIVE PROFESSION	0	6	QUARTZ Quay	0	6	RECORDPLAYER RECOVER	6 0
PIRATE Pistil	5	3	PORPOISE PORT	3	0 3	PROFESSIONAL PROFESSOR	0 5	3 4	GUEER GUENCH	2	2 6	RECREATION RECTANGLE	4 4
PISTOL Piston	2	5	PORTABLE Portal	6	6 5	PROFICIENCY PROFIT	0	5 4	QUESTION QUICKEN	2	2	RECTOR RECBIRO	0 6
PIT PITCH	3	2	FORTER PORTFOLIC	0 6	5	PROFITEEX	0	6	QUICKLY	3	ō	REDEEM REDHEAD	0 5
PITCHER	2	2	PORTION	0	6	PRGGRAM PRGGPESS	3 5	4	QUICKSILVER QUIEILY	4	6 0	REDUCE	0 4
PITH	6	3 3	PORTRAIT POSE	5 3	2	PROGRESSIVE PROHIBLE	0	3	QUILL QUITTER	6 C	5 5	PEOUCER REOUCTION	0 6 G 6
PIXIE PLAID	5 3	0	POSITION POSITIVE	5 2	3	PROJECT PROJECTOR	4	0	QUIVER QUIZ	6	5	REDWOOD REED	2 5 2 2
PLAINT	Ō	6	POSSESSION POSSESSIVE	0	4	PROLONG	0	6	QUGRUM	C	6	REEF REEK	5 7
PLAIT	5	2	POSSIBLE	3	2	PRCHINENT PRCMISE	4	6	QUOTATION QUOTE	5 5	6	REEL	3 5
PLANET PLANK	3	5 0	POSSUM Possum	4	6	PROMOTE PROMOTION	6	4	QUOTIENT RABBI	(0	REFER Péference	6 5
PLANTATION PLANTER	4 5	5 4	PUSTAGE	5 5	4 5	FROMPT PRONOUN	0 3	5	RABIES RACCOON	2	D 2	REFILL REFINE	6 0 0 3
PLAQUE	6	0	POSTAL Poster	0	6	PRONDUNCE	4	0	RACER	4	2	REFLECT REFLECTION	5 0
PLASTER PLASTIC	2	Ō	POSTERITY POSTMASTER	ő	5	PROCF PROCFREAC	3	S	RACKET RADAR	2	0	REFRAIN	0 4
PLAT PLATEAU	3	0 4	POSTSCRIPT	5	6	PROP Propellant	5 6	2	RADIANY Radiation	6 5	ó	ÄEFRESH REFRESHMENT	5 5 0 6
PLATFORM PLATINUM	4	4 5	POSTURE POTASH	5 5	2 0	PROPELLUR PROPER	6	0	RADIUM Radius	5	6	REF#1GERATOR Refuse	4 5 0 4
PLAYER	3	2 5	FOTTERY POUCH	5	2 6	PROPERT,	5	2	RAFFLE RAFT	0 2	3	REGAL REGARD	0 5 0 4
PLAYFUL PLAYMATE	2	3	PCULTRY	4 5	6	PROPOSITION PROPRIETOR	0	5 6	KAFTER	5	ō	EGARULESS	0 6
PLAYPEN PLAYROOM	6	() 3	POUNCE POUT	4	2	PROSE PROSPELT	0 5	6	RAGE RAID	3	2	REGION	0 5 5 5
PLAYSHED PLAYTIME	6	0	POVERTY POWER	6	8	PROSPERITY PROSPERGUS	į. E	6	RAIDER Rail	6 2	0	REGISTER REGISTRATION	5 2 6 0
PLAZA PLEA	6	6	POWERFUL PRACTICAL	5 0	5 6	PROTECT PROTECTION	5	4	RAILING RAILWAY	9	4	REGRET REGULATION	0 4
PLEAD	3	5	ACTICE PRAIRIE	3	3	PRUTEIN	6	Ō	KAINCOAT	6	3	REGULATOR	0 3
PLEASANT PLEASURE	3 5	2	PRAISE	Ģ	3	PROTEST PRCTON	0 4	4 0	RAINDROP Rainfall	5 6	2	REHEARSAL Rehearse	6 6 0 6
PLEAY PLEOGE	5	3	PRANCE Prank	3 5	0	PROTOPLASM PROTOZOA	6	0 0	RAISE RALLY	3	2	REIGN REIN	6 5 4 2
PLENTIFUL	0	6	%ranks Prav	5	6	PROTRACTOR PROUD	5	0	RAM	2	2	REJOICE RELATE	0 6
PLIGHT PLOP	3	5	PREACHER	5	3	PROVE	4	3	RAMP	3	ŏ	KELATION	4 4
PLGT	4	3	PREAMBLE	0	6	PROVERB PROVIDE	0 4	5 3	RAMPART RANGE	0	4	RFLATIVE RELAX	5 0
PLOTTER PLOUGH	0	6. 5	PREARRANGED Precede	Q	6 6	PROVINCE PROVISION	5 0	6 6	RANGER Rank	3	5	RELAY RELFASE	1 5 5 4
							-					-	



3 23.2

100



The second second

T.

K

SIREN SIZSY SITER SISTER SITUATE SITUATE SITUATE SITUATE SITUATE SITUATION SIXTY SMEIN SMELETON SKILLET SLACK	SNOOTF SN	STAMEN STANDARD STANDAV STANDAV STANDAV STANIA STAPLE STAPLE STARBOARU STARBOARU STARCH STARCH STARCH	O 5 SUBMIT	SURNAME SURNAME SURNAME SURNAME SURRECUMI SURRECUMI SURRECUMI SURSPENS SURSPENS SURSPENS SUSSPENS SUSS	1006664005064000000000000000000000000000
SLIVER SLOB SLOGP SLOPE SLOPE SLOPPY SLOT SLOTH SLOUGH SLOUGH SLOUGH	SOUL SOURCE SOUTH-POLS SOUTH-EAST SOUTHERM SOUTHERM SOUTHERM SOUTHERM SOUTHERM SOUTHERM SOUTHERS SOUTHERM SOUTHERS SOUTHERM SOUTHERS SOUTHERM SOUTHERS SOUTHERM SOUTHERS SOUTHERM SOUTH	STALK STALLION STANDARD STANDA	2 STUNT 3 O STUPENDOU 2 O STUPIDIYY 5 STUPIDIYY 6 O STY 6 O SUBJECT 6 O SUBJECT 6 O SUBJECT 7 O SUBJECT 8 O SUBJECT 8 O SUBJECT 8 O SUBJECT 9 O SUBSTANC 9 O SUBSTANC 1 O SUBSTANC 1 O SUBSTANC 1 O SUBSTANC 1 O SUBSTANC 2 O SUBSTANC 2 O SUBSTANC 3 O SUBSTANC 6 O SUBSTANC 6 O SUBSTANC 6 O SUBSTANC 7 O SUBSTANC 8 O SUBSTANC 8 O SUBSTANC 9 O SUBSTANC 1 O SUBSTANC 2 O SUBSTANC 2 O SUBSTANC 2 O SUBSTANC 3 SUBSTANC 2 O SUBSTANC 2 O SUBSTANC 2 O SUBSTANC 2 O SUBSTANC 3 SUBSTANC 2 O SUBSTANC 3 SUBSTANC 2 O SUBSTANC 3 SUBSTANC 3 SUBSTANC 4 O SUBSTANC 5 O SUBSTANC 5 O SUBSTANC 5 O SUBSTANC 6 O S	S SWIMM S SWIM	ER



The state of the s

۶

												F 12
		THRICE	0 3		TRAIIOR	0 3		THENTY-EIGHT	•	0	VAIN VALE	5 2 5 5
TARIFF	6 6	THRIFT THRIFT	0 2		RAMPGLINE TRANQUIL	0 6		TWENTY-FIVE TWENTY-FOUR	2	0	VALET VALOR	0 6 0 4
	5 0 0 5	THRILI	4 2		TRANSFER	0 6		TWENTY-NINE TWENTY-ONE	3 2	0	VALUABLE	5 5 0 6
TART	3 2	THROAT JHRONE	3 2	,	TRANSFORMER TRANSISTOR	4 0		THENTY-SEVEN THENTY-SIX	2	0	VALUATION VALUE	4 2
TASTY	0 5	THRONG THROITLE	6 6		TRANSIT TRANSITIVE	0 6	ı	THENTY THREE	2	3	VALVE VAMPTRE	6 6 4 0
	3 2 2 3	THROUGHOUT	6 6		TRANSMISSION TRANSMIT	5 0		TWEITY-THO TWIG	3	4	V = '	2 3 4 2
TAUGHT	3 4 6 6	THRUHN Thrush	5	2	TRANSMITTER	6 0		TWILIGHT Twine	4	3	VANILLA	3 +
TAX	3 2 0 5	THRUST THUO		2	IRANSOM Transparent	6 0)	TWINKLE TWIRL	3	4	VANISH VANITY	5 5
TEAKETT! E	0 5	THUMBTACK Thump	-	6 4	TRANSPORT TRANSPORTATION	3 :	,	TWIST	3 5	3	VAPOR VARIETY	4 6 6 2
TEASE	3 3	THUNDER	3	2 2	TRAP TRAPEZE	2 2	-	TWISTER TWITTER	0	3	VARIOUS	5 5 5 4
TEASPOON TECHNIQUE	3 4 5 6	THUS Thy	2	2	TRAPEZOIC	0 6	5	TYPE IYPEWRITE	3 0	5 5	VARY VAST	4 6
TEOIQUS TEE	u 0	THYME Ti	2	0 2	TRAPPER Trash	3 7	2	TYPEWRITER TYPHOON	3	0	VAT VAUDEVILLE	0 5
TEEN	3 0	TIC TICK	-	0 2	TRASHCAN Travail	0	0 6	TYPIST	o o	6	VAULT VEAL	6 4 0 4
TEENAGE TEENAGER	4 0	TICKLE	6	4 2	TRAVEL TRAVE! CR	-	3 3	TYRANNY UGLY	2	2	VEGETATION	5 0 6 5
TEENS TEESHIRT	0 2	41DA 210E	4	4	TREACHEROUS	-	0 2	UKULELE UMPIRE	0 5	5 5	AEIT AEHICT!	5 3
TELEGRAM	3 4 4 3		9	υ 6	TREAD TREASON_	6	6	UNABLE UNBREAKASLE	6 6	3 3	VEIN VELOCITY	6 0
TELEGRAPH Telegraphy	0 6	TILE	3 5	2	TREASURE TREASURER	6	0	UNCLEAN	6	5	VELVETEEN Veneer	0 6 4 0
TELESCOPE TELETYPE	5 0	TILT	4	0	TREASURY TREAT		4 3	UNCONSCICUS UNCOVER	0 6	3	VENGEANCE	0 6 0 6
TELEVISION Teller	3 O	- · · · · · · · ·	4	0	TREATMENT	6 6	0 5	UNDERGROUND UNDERLINE	Ó	5	VENI SON VENT	4 6
TEMPER	6 6		0	2 5	IREATY TREEHOUSE	4	0	UNDERSHIRT JNDERSKIRT	6	6 3	VENTILATE VENTILATION	0 6
TEMPERA Temperate	6 4	DIMIT	4	5 4	TREK TREMBLE	6 5	4	UNDERSTAND UNDERSTOOD	3 5		VENTILATCR √ENTRICLE	0 5 6 0
TEMPERATURE Tempest	0 5	TINCAN	6	0	TREMENDOUS TRENCH	6 5	3	UNDERTAKE	0	5	VENTURE	4 ~
TEMPLE TEMPT	5 2		3	2	TREND	5 6	0	UNDERTAKER Underwater	5	0	VERB	3 5 5 5 6 0
TEMPTATION	6 3		0 4	6	TRESPASS TRESS	2	0	UNOO Unoress	5 4		VERTEBRA VERTEBRATE	4 0
TENO TENDER	4 3	TINKER TINKLE	4 6	3	TRIAL Triangular	6	6	UNEASY UNEVEN	6		VERTICAL VERTIGO	5 0 6 0
TENDON TENEMENT	0	5 TINSE'	3	6 2	TRIBE TRIBUTARY	6 6	0	UNEXPECTED	5	ز ز	VESSEL VEST	5 3 4 2
Tennis-Sije Tense	5	6 IINT O TIRELESS	0	6	TRIBUTE TRICEP	0 6	6	UNFAIR Unfit	C	4	VEST I BULE	0 5 6 0
TENSION TENTH	-	O TIRESOME 2 Tissue	0 2	5 0	TRICKLE	5 0	0	UNFORTUNATE Unhappy	(2 3	VET VEX	0 6
TEPEE	ō	3 TISSUE-PAPER 2 TIT	0	5 2	TRIFLE TRIGGER	5	Ó	UNHEALTHY DNHURT		0 6	VIADUCT VIBRATE	6 0
TERM Terminal	6	6 TITLE	2	3 6	TRICONOMETRY TRILL	0	2	UNICORN		5 0	vice-presi	UENT 3 6
TERMITE TERRACE		O TITLE-PAGE 5 TOAD	2	2	TRILLION TRINKET	6	0 5	UNICYCLE Uniform		3 3	VICINITY	0 5
TERRAIN Terrier	6	O TOASTER 5 TOBACCO	4	3	TRIO TRIP	6 2	0	UNIMPORTANT UNION		0 5 5 2	VICTOR	0 4
TERRIFIC	5	6 TODOY 4 TOENAIL	0 5	3	IRIPÉ	6	0	UNIT UNITE		2 0 2 3	VICTORY	6 3
TERRIFY TERRITORY	4	5 TOG	4	2	TRIPLE TRIPLET	6	0	UNITY		0 6		0 5
TERROR Test	4	2 TOKEN	0	5 2	TRIPOO Triumph	6 6	0 5	UNIVERSITY		3 3	VILLA	0 6 2 2
TESTINONY Tetherball	0 4	6 TOLL O TOLLGATE	o o	3	TRIUMPHANT Trolley	0	5			5 5	VILLAIN	6 4 0 6
TEXT TEXTBOOK	4 5	4 TOMAHAWK 5 JOMB	4	4	TRCLLEY-CAR	0	5			0 6	VINEGAR	0 5
TEXTILE	6	6 TOMBOY 0 TOMCAT	3	0	TROMBONE Troop	3	2	UNLGAD		6 5	VINYL	5 0
TEXTURE Thankful	5	4 TOME	4		TROPHY Tropic	5	4	UNLUCKY		6 5	S VIOLA S VIOLATE	9 6
THATCH Thaw	6 4	3 TON	2		TROPICAL Tropism	6 5		UNNATURAL		o e	VIOLENT	0 6 0 6
THEATER THEE	4 2	3 TONE 2 TONG	4	0	TROT Trouble	3				0 !	VIRGINAL	6 0 6 0
THEME TKEMSELF	4	3 TONGS O TONIC	i	3	TRGUSER	4			E	-	VISABLE	0 5
THEMSELVES	5	5 TONNAGE O TONSIL		4	TROUSERS Trout	2	2	UNSAFE		•	O VISE 6 VISION	5 5
THEORY THEREFORE	ō	4 TOOTHACHE		5 0	TRUWEL TRUANT	0	5	UNSEEN		ō	6 VISITOR 5 VISTA	6 3 0 6
THERMOMETER Thief	3	3 TOPIC		5 4	TRUCE TRULY	6	. 3	VOITAU	L	ŏ	3 VISUAL	3 0
THIEVES THIGH	0	4 TOPPER 6 Torch		5 0	TRUMP TRUMPET	3				4	6 VITALITY	0 6 3 0
THINE THINNER	0	5 TORNADO O TORPEDO		56 66	TRUMPETER	Č	4			0	4 VITAMIN 6 VIVIO	0 6
THIRD	2	2 TORRIO 2 TORTOISE		0 4			5 6	UNWORTHY		6	O VIZOR	RY 3 4
THIRST THIRSTY	3	3 TORTURE		6 0		i	5	5 UPPER		5	3 VOCAL	5 4 0 6
THIRTEENTH THIRTY-EIGHT	6 3			2 2	TRUTHFULNESS			5 UPRIGHT 0 UPSET		0 6	2 VGOKA	6 0 2 2
THIRTY-FIVE THIRTY-FOUR	3			4 2 5 0	TUBE		-	4 UPSIDEDUWN		6	O VOICE	3 5
JHIRTY-NINE	3	O TOTEMPO'E		5 0	TUCK		3	3 UPWARD		6	4 VOLLEYBAN	4 5
THIRTY-ONE THIRTY-SEVEN	3	O TOUCHDOWN		6	TUGHDAT		4 .	2 LIRGE		0	6 VOLUME	4 4 6 0
THIRTY-SIX THIRTY-THREE	3	O TOUR		3 4			6	5 URN D USAGE		0	3 VOLUNTEE	R 0 5 2 3
THIRTY-TWO THISTLE	3 0	6 TOURNAMENT		6 (TUMOR		_	O USEFUL O USELESS		5 5	3 VOTE 5 VOW	0 4
THONG THORAX	2			2 4	TUNORA		6	O USUAL 2		6	4 VOWEL 0 VOYAGE	4 3
THORN	4	2 TRACT		ō	TURBINE TURB		6	O UTENSIL O UTILITY		5	5 VULTURE	5 0 4 2
THOROUGH THOU	6	2 TRADER		-	5 TÜRQÜÖLSE 4 Tusk		5	3 VACANT		6	6 WADDLE 6 WADE	5 0 2 2
TKOUGHTFUL THOUGHTFULNE	SS 0	4 TRAIL		2	2 TUT 0 TUTOR		0 5	O VACCINATIO	N	0	6 WAFFLE 5 WAFFLES	5 0
THOUGHTLESS THOUSANDTH	Č	5 TRAILER 5 TRAINING		ō	3 TWEET O TWELFTH		5 0	3 VACUUM 3 VAGABONO		ō	6 WAG	2 2
THREAT		O TRAIT		,	- +							

ERIC

Full Text Provided by ERIC

													F 13
WAGE	6	5	WATER-PONER	C	6	WHISKER	6	0	WIT	4	2	WRISTWATCH	6 0
WAGER	Q	5	WATERCOLER	5	0	#HISKEY	4	0	WITCH-HAZEL	0	6	WRIT	4 0
WAIL	3	2	WATERDOG	6	0	WHISKY	5	4	WITHER	5	4	WRITER	6 3
HAIS + COAT	0	6	WATERCAL	3	4	WHISPER	3	2	WITHIN	4	2	WRITTEN	4 3
WAITER	6	3	WA . ERWA .	6	6	WHIT	5	4	WITNESS	6	5	WROUGH1	0 6
WALE	*	0	WATJ	5	0	WHITEWASH	0	6	WI VES	0	4	X-RAY	2 6
WALKER	4	0	WEAK	3	2	WHITHER	Q	5	WIZARD	4	5	YACHT	
W.LLET	3	6	WEAKNESS	0	6	WHITTLE	5	٥	WOE	4	0	YAM	4 0
HALLOP	0	6	WEALTH	5	5	WHIZ	6	٥	MUMANHOOD	£.	6	YANK	5 0
HALLPAPER	5	4	HEALTHY	6	3	WHOLESALE	0	5	WO™EN	2	3	YARDSTICK	5 4
MALRUS	5	2	JEAN	6	0	WHOLESOME	0	5	WONDERFUL			YAWN	6 3
WALTZ	4	3	WEAPON	6	4	MHOOP	0	6	MOO	4	4	YEA	3 0
WAMPUM	0	3	WEARY	5	6	WICK	3	3	MOODCHUCK	4	3	YEAH	5 0
WAN	0	6	WEASEL	3	0	WICKED	6	3	WOODCUTTER	0	5	YEARLY	6 4
WAND	6	2	WEAVE	2	3	WICKER	O	5	HOODLAND	6	0	YEARN	0 6
WANDER	3	2	WEAVER	4	0	MIDOW	3	2	HOL) DMA N	Ω	3	YEAST	5 2
WANE	0	3	WEB	3	2	WICTH	5	4	MONCHIND	6	0	YELL	2 2
WARBLE	0	3	WED	3	2	WIENER	0	4	WOLDWORK	0	3	YELP	5 0
WARBLER	0	5	₩EDGE	4	0	WIFE	2	2	WOOF	6	2	YEW	6 0
WARD	3	3	WEEKEND	4	0	WIG	2	2	MOOLEN	0	4	AIEFD	6 5
WARDHOBE	0	3	MEEKLY	2	5	WIGGLE	2	5	WORKBOOK	2	0	Y I PE	4 0
WERE	2	2	WEEP	3	2	wi Gwam	4	2	WORKER	4	2	YOKE	5 3
WAREHOUSE	6	5	WEIGHT	3	2	MILDCAT	3	4	WORKMAN	0	5	YOLK	5 4
WARF	6	0	WEIGHTLESSNESS	6	0	WILDERNESS	5	5	WORKSHEET	3	0	YONDER	0 5
WARFARE	0	5	WEJRD	5	0	WILGLIFE	3	0	WORKSHOP	3	0	YORE	0 6
WARMTH	6	6	WELD	6	C	WILE	C	6	WORN	3	5	YOUNGSTER	6 0
WARN	2	2	WELFARE	0	4	WILLING	٥	2	WORRY	3	3	YOURSELVES	5 0
WARP	0	5	WEN	2	3	WILT	3	0	WORSE	3	3	YOUTH	4 3
WARRANT	0	6	WEND	0	4	MINDOM-RFINDS	0	4	WORSHIP	5	5	YOYO	5 0
WARRIOR	0	3	WEPT	5	2	WINDOW FRAME	0	4	WORST	4	3	ZEBRA	2 3
WARSHIP	0	6	WEREWOLF	6	9	WINDOW-SILL	0	2	WORTH	4	3	ZERO	2 3
WART	3	3	WESTERN	4	3	WINDOWSOX	0	3	WORTHY	4	3	ZIGZAG	4 0
WASHBASKET	0	6	WESTWARD	0	6	WINDOWPANE	6	4	WOUND	3	3	ZINC ZIP	3 3 2 0
WASHBOARD	0	5	WHACK	3	3	MINDOWSHIELD	0	6	MOAEN	9	3	ZIPPER	2 0
WASHCLUTH	5	0	WHALE	2	2	WINDPIPE	6	0	MOM	4	0	ZODIAC	0 6
WASHER	4	5	WHARF	0	3	k.INDSH1ELO	6	0	WRAP	0	4	ZOMBI	
WASHRAG	6	0	WHATEVER	3	3	WINDWARD	6	D	WRAPPER	4	ō	ZONE	6 0
WASHTUB	0	4	WHENCE	0	5	WINE	3	2	WRATH	0	5	ZUNE	3 3
WASP	3	6	WHEREVER	4	4	WINK	2	2	WREATH	5	3		
WASTERA SKET	4	2	WHEW	6	0	WINNER	2	4	WRENCH	4	4		
WASTEPAPER	5	5	WHEY	5	0	WIRELESS	0	5	WRESTLE	5	0		
WATCH	0	5	WHINE	6	4	WISDCM	6	3	WRETCH	0	2		
WATCHMAN	0	5	WHIP	2	2	WISE	2	2	WR ING	6	2		
HATER-BUG	0	6	WHIRL	4	4	WISELY	4	0	WR INKLE	3	4		
WATER-LILY	0	6	WHISK-BROOM	0	6	WIST	4	0	WRIST	3	2		

ERIC

Full Text Provided by ERIC

TYPED BY: Arlene Paxton

ERIC Full Text Provided by ERIC

MULTILITHED BY: Margaret Pluid